

P R O S P E C T U S

Scale Sale

GRANTS PASS RESOURCE AREA
JOSEPHINE MASTER UNIT

Medford Sale #ORM07-TS-2017.0002
September 14, 2017 (SQF)

#2. Oh Henry Timber Sale, Coos & Douglas Counties, O&C BID DEPOSIT REQUIRED: \$167,300.00

All timber designated for cutting in W $\frac{1}{2}$ SW $\frac{1}{4}$, SE $\frac{1}{4}$ SW $\frac{1}{4}$ Sec. 27, E $\frac{1}{2}$ NE $\frac{1}{4}$, E $\frac{1}{2}$ SE $\frac{1}{4}$ Sec. 33, W $\frac{1}{2}$ NW $\frac{1}{4}$, SW $\frac{1}{4}$ SW $\frac{1}{4}$ Sec. 35, T. 31 South, R. 9 West; Lot 2, Lot 3, Lot 4, SW $\frac{1}{4}$ NE $\frac{1}{4}$, S $\frac{1}{2}$ NW $\frac{1}{4}$, N $\frac{1}{2}$ SW $\frac{1}{4}$, SE $\frac{1}{4}$ SW $\frac{1}{4}$, W $\frac{1}{2}$ SE $\frac{1}{4}$ Sec. 2, Lot 1, Lot 2, Lot 3, Lot 4, SW $\frac{1}{4}$ NE $\frac{1}{4}$, S $\frac{1}{2}$ NW $\frac{1}{4}$, NE $\frac{1}{4}$ SW $\frac{1}{4}$, S $\frac{1}{2}$ SW $\frac{1}{4}$, SE $\frac{1}{4}$ Sec. 3, S $\frac{1}{2}$ SW $\frac{1}{4}$, S $\frac{1}{2}$ SE $\frac{1}{4}$ Sec. 5, Lot 6 Sec. 6, Lot 1, Lot 2, W $\frac{1}{2}$ NE $\frac{1}{4}$, SE $\frac{1}{4}$ NE $\frac{1}{4}$, NE $\frac{1}{4}$ SE $\frac{1}{4}$, S $\frac{1}{2}$ SE $\frac{1}{4}$ Sec. 7, NE $\frac{1}{4}$, NE $\frac{1}{4}$ NW $\frac{1}{4}$, SW $\frac{1}{4}$ NW $\frac{1}{4}$, SW $\frac{1}{4}$, SE $\frac{1}{4}$ Sec. 8, NW $\frac{1}{4}$, SW $\frac{1}{4}$, SE $\frac{1}{4}$ Sec. 9, N $\frac{1}{2}$ NE $\frac{1}{4}$, SW $\frac{1}{4}$ NE $\frac{1}{4}$, NE $\frac{1}{4}$ NW $\frac{1}{4}$, S $\frac{1}{2}$ NW $\frac{1}{4}$, N $\frac{1}{2}$ SW $\frac{1}{4}$, SW $\frac{1}{4}$ SW $\frac{1}{4}$ Sec. 10, W $\frac{1}{2}$ NW $\frac{1}{4}$, NW $\frac{1}{4}$ SW $\frac{1}{4}$ Sec. 15, NE $\frac{1}{4}$ NW $\frac{1}{4}$ Sec. 16, NW $\frac{1}{4}$ NW $\frac{1}{4}$ Sec. 17, NE $\frac{1}{4}$ Sec. 18, T. 32 South, R. 10 West Willamette Meridian.

Approx. Number Merch. Trees	Est. Volume MBF 32' Log	Species	Est. Volume MBF 16' Log	Appr. Price Per MBF*	Est. Volume Times Appraised Price
48,753	6,804	Douglas-fir	8048	\$207.30	\$1,668,350.40
2,227	56	Western Hemlock	95	\$37.10	\$3,524.50
18	5	Sugar Pine	6	\$31.20	\$187.20
13	.9	Incense-cedar	1	\$163.10	\$163.10
51,011	6,769.8	Totals	8,150		\$1,672,225.20

**The purchase of biomass material is optional. If the Purchaser chooses to purchase biomass/firewood, then it will be modified into the timber sale contract and a fair market price will be established at that time.

*Stumpage values have been determined by market value estimates and analytical appraisal methods were used to compute the appraised price. Additional information concerning the appraised price is available at the Medford District Office.

TIMBER AUCTION LOCATION – The timber auction will be held at the Grants Pass Inter-agency Office, located at 2164 NE Spalding Ave., Grants Pass, Oregon, at 9 a.m. on Thursday, September 14, 2017.

CRUISE INFORMATION - The timber in all units, except for the roadside and helicopter units (31-9-35.1, 32-9-3.0, 32-9-16.1, 32-9-16.2, 1-5, and 39 acres of 1-11B), has been cruised using the PCMTRE sampling method to select sample trees. The Douglas-fir in the roadside and helicopter units has been cruised using the 3P sampling method to select sample trees. The sample trees have been measured, utilizing the VOLT system of measurement, and the volume expanded to a total sale volume. Maps showing the location and description of these sample trees are available at the Grants Pass Interagency Office.

The volume of all other species in the roadside and helicopter units has been derived from individual tree measurements taken during a 100% cruise using form class tables for estimating board foot volume of trees in 16-foot logs. Approximately 0 trees which are considered to be non-

merchantable are designated for cutting. Approximately 0% of the 8,150 M bd. ft sale volume is salvage material. With respect to merchantable trees of all conifer species: the average tree is 13.6 inches DBHOB; the average gross merchantable log contains 52 bd. ft.; the total gross volume is approximately 8,922 M bd. ft; and 91% recovery is expected. (Average DF is 13.7 inches DBHOB; average gross merchantable log DF contains 52 bd. ft.)

Bidders will be restricted to bidding on a unit (MBF) rate of the Douglas-fir volume. All other species will be sold at appraised price per unit (MBF). The minimum bid increment will be \$0.10 per MBF.

LOG EXPORT AND SUBSTITUTION RESTRICTIONS - All timber sold to the Purchaser under the terms of the contract, except exempted species, is restricted from export under the United States in the form of unprocessed timber and is prohibited from use as a substitute for exported private timber.

The BLM has revised the log export restrictions special provision to reduce the log branding and painting requirements. The new requirements include branding of one end of all logs with a scaling diameter of over 10 inches. All loads of 11 logs or more, regardless of the diameter of the logs, will have a minimum of 10 logs branded on one end. All logs will be branded on loads of 10 logs or less. One end of all branded logs will be marked with yellow paint. At the discretion of the Contracting Officer, the Purchaser may be required to brand and paint all logs. The Purchaser shall bear any increased costs for log branding and painting.

CUTTING AREA – Forty five (45) units containing six hundred seventy six (676) acres must be partial cut and four (4) right-of-way units containing thirty two (32) acres of roadside management. Twenty four (24) right-of-ways (temporary routes and tractor-cable swing routes) containing five (5) acres must be clear-cut.

CUTTING TIME - Contract duration will be thirty six (36) months for cutting and removal of timber.

ACCESS - Access to the sale area is available via a public road through the contract area; an existing BLM road; Right-of-Way and Road Use Agreement M-605 with Weyerhaeuser Timber Company; Right-of-Way and Road Use Agreement M-605 with Cow Creek of Umpqua Tribe (CCUT). Among other conditions, the Right-of-Way and Road Use Agreement M-605 with Weyerhaeuser Timber Company requires: road maintenance to be completed by the Purchaser; completion of an agreement between the Purchaser and Permittee; arbitration of conditions of road use; the Permittee has indicated they will ask for a road use fee of at least **\$0.60** per MBF per Mile. Among other conditions, the Right-of-Way and Road Use Agreement M-605 with Cow Creek of Umpqua Tribe (CCUT) requires: road maintenance to be completed by the Purchaser; completion of an agreement between the Purchaser and Permittee; arbitration of conditions of road use; the Permittee has indicated they will ask for a road use fee of at least **\$0.60** per MBF per Mile.

ROAD MAINTENANCE - The Purchaser will be required to maintain all of the roads which they construct plus 25.64 miles of existing BLM/private road. BLM will maintain 37.25 Miles of BST road. The Purchaser will be required to pay a maintenance fee of **\$0.92** and rockwear fee of **\$0.60** per MBF per mile, approximately a total of **\$170,231.19** for the use of these roads.

ROAD CONSTRUCTION - The contract will require the Purchaser to construct/improve **125+14** stations of road. Additional information is available in the timber sale prospectus.

SOIL DAMAGE PREVENTION - Pursuant to Section 26 of Form 5450-26, Timber Sale Contract, no mechanical ground based harvesting, ground based yarding, skid trail and landing rehabilitation, machine piling, temporary route construction, temporary route reconstruction, temporary route decommissioning, or non-emergency road maintenance shall be conducted in units 1-11A, 1-11B, 2-1, 2-1B, 2-2, 3-1, 3-3, 3-4A, 3-4B, 3-12A, 6-16, 7-27, 8-1, 8-7, 8-7A, 8-8, 8-

36, 9-5, 9-5A, 9-5B, 9-5C, 9-13, 10-2, 15-11B, 16-2, 18-7, 27-8, 33-1, 33-18, 33-28, 35-4, 35-8, 31-9-35.1, 32-9-3.0, 32-9-16.1, and 32-9-16.2 between October 15 of one calendar year and May 15 of the following calendar year both days inclusive. Purchaser may request in writing, a conditional waiver of this restriction. If soil moisture conditions are dry, as determined by the inability of a soil sample taken at four (4) to six (6) inches to maintain form when compressed and by the inability of soil moisture at the surface to be readily displaced, causing ribbons and ruts along equipment tracks, the Contracting Officer may approve a conditional waiver. If impacts to soil resulting from said conditional waiver are not acceptable as determined by the Authorized Officer, the waiver will be revoked.

Pursuant to Section 26 of Form 5450-26, Timber Sale Contract, no haul on all natural surface and hydrologically connected rocky roads 31-9-35.1, 32-9-2.0, 32-9-7.0, 32-9-10.0, and 32-9-16.1 shall be conducted on the Contract Area between October 15 of one calendar year and May 15 of the following calendar year, both days inclusive. Purchaser may request in writing, a conditional waiver of this restriction. If the Authorized Officer determines that hauling would not result in road damage or the transport of sediment to nearby stream channels based on soil moisture conditions or rain events, Contracting Officer may approve a conditional waiver for hauling. If soil moisture conditions or rain events are anticipated to cause impacts to roads or stream water quality resulting from said conditional waiver are not acceptable as determined by the Authorized Officer, the waiver will be revoked.

Pursuant to Section 26 of Form 5450-26, Timber Sale Contract, no haul shall be conducted from units 1-5, 1-11A, and 1-11B between October 15 of one calendar year and May 15 of the following calendar year, both days inclusive due to infected Port-Orford cedar in the watershed. Purchaser may request in writing, a conditional waiver of this restriction. If the Authorized Officer determines that hauling would not result in road damage or the transport of sediment to nearby stream channels based on soil moisture conditions or rain events, Contracting Officer may approve a conditional waiver for hauling. If soil moisture conditions or rain events are anticipated to cause impacts to roads or stream water quality resulting from said conditional waiver are not acceptable as determined by the Authorized Officer, the waiver will be revoked.

Pursuant to Section 26 of Form 5450-26, Timber Sale Contract, the Purchaser shall, prior to October 15 of the same operating season, winterize and rehabilitate temporary routes, landings, hydrologically connected corridors and skidtrails and other areas of exposed soils by properly installing and/or using water bars, berms, sediment basins, gravel pads, hay bales, small dense woody debris, seeding and/or mulching, to reduce sediment runoff and divert runoff water away from stream channels, headwalls, slide areas, high landslide hazard locations or steep erodible fill slopes as directed by the Authorized Officer.

EQUIPMENT REQUIREMENTS - A yarding tractor not greater than 9 feet wide as measured from the outer edges of standard width shoes and equipped with an integral arch and a winch for lining logs seventy-five (75) feet. A purpose built mechanical harvester with boom-mounted single-grip felling head (a head that can hold and fully suspend the tree after it is cut); boom must have a lateral reach of twenty (20) feet or more; the purpose-built carrier may be of the articulated, rubber-tired design, or the zero-clearance tail swing leveling track-mounted design. A skyline yarder with a large (50-70 foot) tower; capable of one-end suspension with a minimum lateral yarding capability of seventy-five (75) feet while maintaining a fixed position during inhaul; capable of multi-span; and capable of an external yarding distance of one thousand eight hundred sixty (1,860) feet slope distance. A helicopter equipped with a dropline with a minimum length of two hundred (200) feet. A minimum two hundred (200) flywheel horsepower tractor with mounted rippers no more than thirty six (36) inches apart and capable of ripping to a depth of eighteen (18) inches will be required for decommissioning temporary routes and utilized skid roads within Riparian Reserves. A tank truck or engine of three hundred (300) gallons or more capacity with five hundred (500) feet of 1½ inch hose (must be adequate length to reach two hundred (200) feet beyond active work sites), six (6) 1½ inch wyes, six (6) 1½ inch to 1 inch reducers, three (3) 1½ inch nozzles and three (3) 1 inch nozzles will be required for fire

prevention and control. Each fire engine/tank truck shall be equipped with a pump capable of delivering a minimum of forty (40) gallons per minute (gpm) water flow at one hundred fifty (150) pounds per square inch (psi) engine pressure through fifty (50) feet of 1½ inch fire hose. The pump may be either power take off driven or truck-mounted auxiliary engine driven, or portable.

SLASH DISPOSAL - Slash disposal will consist of a combination of: lop and scatter; selective slashing; machine pile & cover machine piles; hand pile & cover hand piles; pile & cover landing decks; burn & mop up hand piles, machine piles, and landing decks as described in SD-5 of the Special Provisions.

Lop and scatter all slash in units 7-5, 7-28, 9-5A, 27-34, 33-18, and 33-28 concurrently with normal felling operations. Lop and scatter all slash located beyond one hundred (100) feet of roads where the road coincides with a harvest unit boundary in the cable portion of unit 2-1B concurrently with normal felling operations. Lop and scatter all slash located beyond two hundred (200) feet of roads where the road coincides with a harvest unit boundary in all cable portions of units 1-11A, 1-11B, 3-1, 3-5, 3-8A, 3-12, 3-18, 9-5B, 10-2, 10-4A, 10-5, 16-2, and 35-4 concurrently with normal felling operations. Lop and scatter all slash located outside of machine and hand pile treatment areas in all cable portions of units 3-8, 8-1, 8-8, 15-11B, 18-7, and 33-1 concurrently with normal felling operations.

Selectively slash all hardwood trees between one (1) inch and ten (10) inches D.B.H.O.B. in units 2-2 and 10-2B.

Machine pile, cover, burn & mop up all slash cut within fifteen (15) feet on each side of roads in roadside management units 31-9-35.1, 32-9-3.0, 32-9-16.1, and 32-9-16.2. Machine pile, cover, burn & mop up all slash situated in ground-based yard portion of units 1-11A, 2-1, 2-1B, 3-1, 3-3, 3-4A, 3-4B, 6-16, 7-27, 8-1, 8-7, 8-7A, 8-36, 9-5, 9-5C, 9-13, 18-7, 27-8, 33-1, 35-4, and 35-8, and all slash resulting from temporary route construction and reconstruction for units 1-11B, 3-1, 3-12A, 8-1, 8-8, 9-13, 10-2, 15-11B, 16-2, 18-7, 33-1, 33-18, 33-28, and 35-4.

Hand pile, cover, burn & mop up all slash situated in units 3-12A and 10-4B. Hand pile, cover, burn & mop up all slash (following the selective slashing treatment) in units 2-2 and 10-2B. Hand pile, cover, burn & mop up all slash situated within one hundred (100) feet of roads where the road coincides with a harvest unit boundary in the cable portion of unit 2-1B. Hand pile, cover, burn & mop up all slash situated within two hundred (200) feet of roads where the road coincides with a harvest unit boundary in all cable portions of units 1-11A, 1-11B, 3-1, 3-5, 3-8A, 3-12, 3-18, 7-27, 8-36, 9-5B, 9-13, 10-2, 10-4A, 10-5, 16-2, and 35-4. Hand pile, cover, burn & mop up all slash situated within one hundred (100) feet of road 31-9-35.0 and within two hundred (200) feet of road 32-9-3.0 where the road coincides with a harvest unit boundary in the cable portion of unit 3-8. Hand pile, cover, burn & mop up all slash situated within one hundred (100) feet of road 32-9-16.2 and within two hundred (200) feet of road 32-9-8.4 where the road coincides with a harvest unit boundary in the cable portion of unit 8-1. Hand pile, cover, burn & mop up all slash situated within one hundred (100) feet of road 32-9-16.1 and within two hundred (200) feet of the temporary route where the road/route coincides with a harvest unit boundary in the cable portion of unit 8-8. Hand pile, cover, burn & mop up all slash situated within one hundred (100) feet of road 32-9-3.0 and within two hundred (200) feet of road 32-9-16.4 where the road coincides with a harvest unit boundary in the cable portion of unit 15-11B. Hand pile, cover, burn & mop up all slash situated within one hundred (100) feet of road 32-9-7.0 and within two hundred (200) feet of road 32-9-8.4 where the road coincides with a harvest unit boundary in the cable portion of unit 18-7.

CONTRACT TERMINATION - A Special Provision has been added to the contract which enables the Contracting Officer to suspend the contract to facilitate protection of certain plant or animal species, and/or to modify or terminate the contract when necessary to comply with the Endangered Species Act, or comply with a court order, or protect occupied marbled murrelet sites in accordance with the Standards and Guidelines of the Medford District Record of Decision

(ROD) and Resource Management Plan (RMP). This contract provision limits the liability of the Government to the actual costs incurred by the Purchaser which have not been amortized by timber removed from the contract area.

PERFORMANCE BOND - A performance bond in the amount of 20% of the total purchase price will be required.

OTHER -

1. No extension of time beyond the normal 30 days will be granted for completing bonding and contract signing requirements.
2. In the helicopter yard units 1-5 and 1-11B, cut all trees within fifty nine (59) feet of predesignated leave trees identified with a double band of orange paint at breast height according to Designation by Description (DxD) marking guidelines described in Exhibit E and as shown on Exhibit A.
3. No operations for units 1-11A, 2-1, 2-1B, 2-2, 3-1, 3-12, 7-27, 8-1, 10-2, 10-4A, 10-4B, 16-2, 18-7, 27-8, 27-34, 33-18, 33-28, 35-4, and part of unit 3-8 that is north of the MAMU seasonal restriction line as shown on Exhibit A shall be conducted between April 1 to August 5 of the same calendar year, both days inclusive.
4. No operations for units 1-11A, 2-1, 2-1B, 2-2, 3-1, 3-12, 7-27, 8-1, 10-2, 10-4A, 10-4B, 16-2, 18-7, 27-8, 27-34, 33-18, 33-28, 35-4, and part of unit 3-8 that is north of the MAMU seasonal restriction line as shown on Exhibit A shall be conducted from two (2) hours before sunset of one day through two (2) hours after sunrise the following day between August 6 to September 15 of the same calendar year, both days inclusive.
5. No operations for units 2-1B, 2-2, 3-1, 3-12, 3-18, 10-2, 27-34 as shown on Exhibit A shall be conducted between March 1 and June 30 or until two (2) weeks after the fledging period of the same calendar year, both days inclusive. This restriction may be extended until September 30 during the year of harvest if the operations would cause a nesting northern spotted owl to flush. This restriction will not apply if it can be shown from northern spotted owl protocol surveys conducted in accordance with accepted standards, as approved by the Contracting Officer, that northern spotted owl nesting and/or fledging activities are not occurring during the year and/or time of harvest.
6. The Purchaser shall repair damage to any asphalt at his expense, as directed by the Authorized Officer.
7. The Purchaser shall as directed by the Authorized Officer rehabilitate all ground based skid trails utilized within two hundred (200) feet of streams, all temporary routes, the cable-tractor swing route in units 2-1B, 8-1, 16-2, and 18-7, and all landings outside of the road prism.
8. The Purchaser shall hand construct waterbars and lop and scatter activity slash on cable corridors within the areas that contain fragile soils in units 3-1, 3-8, 33-1, and the cable yard portion of 1-11B as shown on Exhibit A and as directed by the Authorized Officer.
9. In addition to the standard equipment washing prior to entry onto BLM lands, the Purchaser shall pressure wash all logging, construction, chipping, grinding, shredding, rock crushing, and transportation equipment **after** operating in units 1-11A and 1-11B in order to prevent the spread of *Phytophthora lateralis*. Washing shall occur off BLM lands and shall be accomplished prior to re-entry onto BLM lands and between sale locations as directed by the Authorized Officer. Cleaning shall be defined as removal of all dirt, grease, plant parts.

10. The License Agreement fees and conditions listed in the Prospectus are pending and are not final. Final fees are dependent on final signed License Agreements.

NARRATIVE DESCRIPTION OF HOW TO GET TO THE TIMBER SALE AREA - From I-5 take Exit 80 to Glendale, proceed down Glendale Valley Road (Hwy. 313) toward Glendale. Turn right onto Azalea-Glen Road, then turn left onto Reuben Road (Hwy. 27). Proceed for 15 miles and take a left onto Cow Creek Road. Follow Cow Creek Road for 0.2 miles and turn left onto West Fork Cow Creek Road, which becomes BLM Road #32-8-1.1. Follow BLM Road #32-8-1.1 for 11.4 miles and turn left onto Walker Prairie Road (BLM Road #31-9-35). All units can be accessed from the Walker Prairie Road (BLM Road #31-9-35).

ENVIRONMENTAL ASSESSMENT - An environmental assessment (DOI-BLM-ORWA-M070-2016-0001-EA) was prepared for this sale, and a Finding of No Significant Impact has been documented. This document is available for inspection as background for this sale at the Medford District Office.

OH HENRY TIMBER SALE

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

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

- (A) AR-1 All timber on the Reserve Areas as shown on Exhibit A and all trees marked with a combination of orange paint, orange flagging, and/or posters which are on or mark the boundaries of the Reserve Areas.
- (B) AR-2 All timber on the reserve areas shown on Exhibit A and all blazed, painted, or posted trees which are on or mark the boundaries of the reserve areas, except approximately two thousand four hundred thirteen (2,413) Douglas-fir trees and thirteen (13) incense-cedar trees marked for cutting heretofore by the Government with blue paint above and below stump height in roadside management units 31-9-35.1, 32-9-3.0, 32-9-16.1, and 32-9-16.2 shown on Exhibit A.
- (C) IR-1 Approximately two thousand two hundred ninety eight (2,298) Douglas-fir trees, forty eight (48) sugar pine trees, one (1) western hemlock tree, and one (1) incense-cedar tree marked with orange paint above and below stump height in units 10-2B and 18-7 as shown Exhibit A.
- (D) IR-1 Approximately twenty five thousand eight hundred three (25,803) Douglas-fir trees, two hundred thirteen (213) ponderosa pine trees, one hundred ninety one (191) western hemlock trees, one hundred eighty nine (189) white fir trees, one hundred seventy nine (179) incense-cedar trees, one hundred seventeen (117) sugar pine trees, and seventy three (73) knobcone pine trees marked with orange paint above and below stump height in units 2-1B, 2-2, 3-3, 3-4A, 3-4B, 3-5, 3-8, 3-8A, 3-12A, 7-27, 7-28, 8-1, 8-7, 8-7A, 8-8, 8-36, 9-5, 9-5A, 9-5B, 9-5C, 9-13, 10-2, 10-4A, 10-5, 15-11B, 16-2, 27-8, 33-1, 33-28, 35-4, and 35-8 as on Exhibit A. Trees marked as above may not be cut under Section 42(A)(24)(L-24) unless specifically approved in advance by the Contracting Officer.
- (E) IR-1 Approximately forty five (45) trees marked with a double band of orange paint at breast height in unit 1-5 and the helicopter yard portion of unit 1-11B as on Exhibit A.

OH HENRY TIMBER SALE

SPECIAL PROVISIONS

- (F) IR-2 All timber except approximately five thousand two hundred fifty seven (5,257) Douglas-fir trees, twenty one (21) western hemlock trees, four (4) ponderosa pine trees, and four (4) white fir trees marked for cutting heretofore by the Government with blue paint above and below stump height in units 1-11A, 2-1, 3-1, 3-12, 3-18, 6-16, 7-5, 27-34, 33-18, and the cable portion of unit 1-11B shown on Exhibit A.
- (G) IR-3 All conifer trees which are greater than thirty nine (39) inches diameter at breast height outside bark in units 3-1, 3-12, 8-1, and 18-7 shown on Exhibit A.
- (H) IR-13 All leave trees required to meet the Selection Criteria as outlined in Exhibit E, in unit 1-5 and the helicopter yard portion of unit 1-11B as shown on Exhibit A.
- (I) IR-13 All snags or coarse woody debris in all units shown on Exhibit A which do not present a safety hazard as determined by the Authorized Officer. Snags felled for safety reasons shall be retained on site.
- (J) IR-13 All hardwoods trees all units shown on Exhibit A which do not present a safety hazard as determined by the Authorized Officer.

OH HENRY TIMBER SALE

SPECIAL PROVISIONS

Section 42

(A) LOGGING

- (1) L-1 Before beginning operations on the contract area for the first time or after a shutdown of seven (7) or more days, the Purchaser shall notify the Authorized Officer in writing of the date they plan to begin operations. The Purchaser shall also notify the Authorized Officer in writing if he intends to cease operations for any period of seven (7) or more days.
- (2) L-2 Prior to the commencement of operations the Purchaser shall obtain from the Authorized Officer written approval of a written operations and logging plan commensurate with the terms and conditions of the contract, which shall include measures needed to ensure protection of the environment and watershed. A pre-work conference between the Purchaser's authorized representative and the Authorized Officer must be held at a location designated by the Authorized Officer before the logging plan will be approved. All logging shall be done in accordance with the plan.
- (3) L-4 All trees designated for cutting in variable density thin units shall be cut so that the resulting stumps shall not be higher than twelve (12) inches measured from the ground on the uphill side of the trees unless otherwise approved by the Authorized Officer.
- (4) L-4 All trees designated for cutting in roadside management units, outside of the ditchline and road bed surface, 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.
- (5) L-4 All vegetation designated for cutting in roadside management units, within the ditchline and road bed surface including turnouts that would interfere with normal motor patrol blading, shall be removed or ground down to a minimum of three (3) inches below ground or road surfacing level as described in Exhibits C-8 and C-10, unless otherwise approved by the Authorized Officer.
- (6) L-4 All vegetation designated for cutting in roadside management units, within the road bed surface including turnouts and the inside portion of the ditchline, shall be cut down to one (1) inch vertical height as described in Exhibits C-8 and C-10, unless otherwise approved by the Authorized Officer.

OH HENRY TIMBER SALE

SPECIAL PROVISIONS

- (7) L-5 All conifer trees eight (8) inches or larger D.B.H.O.B., which are not reserved shall be felled in all units shown on Exhibit A.
- (8) L-5 All vegetation greater than one (1) foot tall that follows the blue-mark cut tree line, which are not reserved shall be felled in all roadside management units shown on Exhibit A and as described in Exhibits C-8 and C-10. All vegetation required to be cut shall be felled concurrently. All machine piling of slash shall be accomplished within sixty (60) days of the completion of yarding of each cutting area.
- (9) L-8 In all units except unit 1-5 and the helicopter portion of unit 1-11B as shown on Exhibit A, all trees designated for cutting shall be felled and whole tree yarded or yarded with tops attached except when excessive stand damage occurs or the resulting continuous slash depth is expected to exceed eighteen (18) inches as determined by the Authorized Officer. If excessive stand damage occurs or continuous slash depth is expected to exceed eighteen (18) inches, all trees shall be bucked into log lengths not to exceed forty one (41) feet prior to being yarded.
- (10) L-11 No trees may be felled into the stream, seep, wetland, or other resource buffers designated on Exhibit A.
- (11) L-12 In the areas designated herein and shown on Exhibit A, yarding/felling shall be done in accordance with the yarding/felling requirements or limitations for the designated area.

Designated Area	Yarding Requirements or Limitations
<u>Roadside Management Units</u> 31-9-35.1, 32-9-3.0, 32-9-16.1, 32-9-16.2	Mechanical felling required with a single-grip felling head (a head that can hold and fully suspend the tree after it is cut). Only purpose built carriers with boom-mounted felling heads may be approved. The boom must have a lateral reach of twenty (20) feet or more, and the machine's lateral reach must be utilized as much as possible. The purpose-built carrier may be of the articulated, rubber-tired design, or the zero-clearance tail swing leveling track-mounted design. Yarding shall be done with a system which will fully suspend both ends of the log clear of the ground during inhaul.

OH HENRY TIMBER SALE

SPECIAL PROVISIONS

<u>Roadside Management Units</u> <u>Continued</u> 31-9-35.1, 32-9-3.0, 32-9-16.1, 32-9-16.2	<p>Landing size shall not exceed one-quarter (¼) acre, shall be located along existing roads, and shall be approved by the Authorized Officer. No landing creation or expansion shall occur without prior approval from the Authorized Officer. Design landings with adequate drainage.</p> <p>Conifer tops and limbs, hardwoods, brush, and other cut vegetation created from the roadway clearing treatment shall be machine piled concurrently with felling operations and shall be treated according to the roadway clearing prescriptions found in Exhibits C-8 and C-10 and according to the slash disposal stipulations found in Sec. 42(F)(1)(b)(SD-1b).</p> <p>All mechanized equipment shall only operate on existing road surfaces.</p> <p>Mechanized felling operations are subject to seasonal operating restrictions as described in Section 42(A)(15)(L-19) of this contract.</p>
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Designated Area	Yarding Requirements or Limitations
<u>Ground Based Units</u> 1-11A, 2-1, 2-1B, 2-2, 3-1, 3-3, 3-4A, 3-4B, 6-16, 7-27, 8-1, 8-7, 8-7A, 8-36, 9-5, 9-5A, 9-5B, 9-5C, 9-13, 18-7, 27-8, 33-1, 33-28, 35-4, 35-8	<p>Mechanized harvesting operations are optional. All ground-based harvest units may be manually felled.</p> <p>Mechanized felling operations shall be limited to slopes and existing skid trail grades of thirty-five (35) percent or less.</p> <p>Mechanized felling operations are subject to seasonal operating restrictions as described in Section 42(A)(15)(L-19) of this contract.</p> <p>The harvester, feller-processor, or feller-buncher shall be approved by the Authorized Officer prior to the start of mechanized felling operations. Only purpose built carriers with boom-mounted felling heads may be approved. The boom must have a lateral reach of twenty</p>

OH HENRY TIMBER SALE

SPECIAL PROVISIONS

<u>Ground Based Units</u> <u>Continued</u> 1-11A, 2-1, 2-1B, 2-2, 3-1, 3-3, 3-4A, 3-4B, 6-16, 7-27, 8-1, 8-7, 8-7A, 8-36, 9-5, 9-5A, 9-5B, 9-5C, 9-13, 18-7, 27-8, 33-1, 33-28, 35-4, 35-8	<p>(20) feet or more, and the machine's lateral reach must be utilized as much as possible. The purpose-built carrier may be of the articulated, rubber-tired design, or the zero-clearance tail swing leveling track-mounted design.</p> <p>The harvest equipment shall walk on existing or created slash as directed by the Authorized Officer. If Purchaser is required to create slash to walk on, then Purchaser shall not be required to whole-tree-yard.</p> <p>Yarding tractor width shall not be greater than nine (9) feet track width and shall be equipped with an integral arch.</p> <p>Existing skid roads shall be used when possible. Skid roads shall not exceed a width of twelve (12) feet on average per unit and new skid roads shall be placed at least one hundred fifty (150) feet apart where topography will allow, unless the Purchaser proposes an alternate logging plan that limits soil compaction to less than twelve (12) percent, limits soil productivity loss to less than five (5) percent of the harvest unit, and is approved by the Authorized Officer.</p> <p>Prior to falling any timber in the unit, all new skid roads shall be pre-designated by the Purchaser and approved by the Authorized Officer. Yarding tractors shall operate only on tractor skid roads approved by the Authorized Officer.</p> <p>New skid roads must be located on ground less than thirty-five (35) percent slope. Rehabilitate all utilized skid roads that are within two hundred (200) feet of streams as specified in Sec. 42 (C)(9)(E-1).</p> <p>Landing size shall not exceed one-quarter ($\frac{1}{4}$) acre, shall be located along existing roads, temporary routes, and/or cable-tractor swing routes within unit boundaries, and shall be approved by the Authorized Officer. Design landings with adequate drainage so that they are not</p>
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OH HENRY TIMBER SALE

SPECIAL PROVISIONS

<p><u>Ground Based Units</u> <u>Continued</u> 1-11A, 2-1, 2-1B, 2-2, 3-1, 3-3, 3-4A, 3-4B, 6-16, 7-27, 8-1, 8-7, 8-7A, 8-36, 9-5, 9-5A, 9-5B, 9-5C, 9-13, 18-7, 27-8, 33-1, 33-28, 35-4, 35-8</p>	<p>hydrologically connected to draws or the ditchline of roads.</p> <p>Directional falling to lead and away from streams, unit boundaries, and resource buffers shown on Exhibit A will be required.</p> <p>The use of blades while tractor yarding will be limited, equipment shall walk over as much ground litter as possible.</p> <p>Designated landings and skid trails may be needed outside of unit boundaries in units 9-5A, 9-13, and 33-28. These landings and corridors shall not be located in any of the buffers shown on Exhibit A and shall be approved by the Authorized Officer prior to use.</p> <p>The Purchaser shall repair damage to any asphalt at his expense, as directed by the Authorized Officer.</p>
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Designated Area	Yarding Requirements or Limitations
<p><u>Cable Yard Units</u> 1-11A, 1-11B, 2-1B, 2-2, 3-1, 3-5, 3-8, 3-8A, 3-12, 3-12A, 3-18, 7-5, 7-27, 7-28, 8-1, 8-8, 8-36, 9-13, 10-2, 10-2B, 10-4A, 10-4B, 10-5, 15-11B, 16-2, 18-7, 27-34, 33-1, 33-18, 35-4</p>	<p>Yarding will be done with a cable yarding system which will suspend one end of the log clear of the ground during inhaul on the yarding corridor. The cable yarding system shall be capable of yarding one thousand eight hundred sixty (1,860) feet slope distance.</p> <p>A carriage is required which will maintain a fixed position on the skyline during lateral yarding and has a minimum lateral yarding capability of seventy five (75) feet.</p> <p>Yarding corridors will be perpendicular to the contours and located outside of all buffers shown on Exhibit A.</p> <p>Prior to falling any timber in the unit, all tail/lift trees and/or intermediate support trees shall be pre-designated by the Purchaser and approved by the Authorized Officer.</p>

OH HENRY TIMBER SALE

SPECIAL PROVISIONS

<p><u>Cable Yard Units</u> <u>Continued</u> 1-11A, 1-11B, 2-1B, 2-2, 3-1, 3-5, 3-8, 3-8A, 3-12, 3-12A, 3-18, 7-5, 7-27, 7-28, 8-1, 8-8, 8-36, 9-13, 10-2, 10-2B, 10-4A, 10-4B, 10-5, 15-11B, 16-2, 18-7, 27-34, 33-1, 33-18, 35-4</p>	<p>Existing cable corridors shall be used whenever possible. Yarding corridors shall be approximately one hundred fifty (150) feet apart, measured at the tailholds.</p> <p>Yarding corridor widths shall not exceed six (6) feet either side of the skyline centerline.</p> <p>Landing size shall not exceed one-quarter (¼) acre, shall be located along existing roads, temporary routes, and/or cable-tractor swing routes within unit boundaries where possible, and shall be approved by the Authorized Officer. Short purchaser spurs into units may be necessary to achieve one-end log suspension. Design landings with adequate drainage so that they are not hydrologically connected to draws or the ditchline of roads.</p> <p>Landings and corridors may be needed outside of unit boundaries in units 3-8, 7-5, 7-28, 15-11B, 27-34, and 35-4. These landings and corridors shall not be located in any of the buffers shown on Exhibit A and shall be approved by the Authorized Officer prior to use.</p> <p>The approximate centerline of temporary routes have been flagged in red as shown on Exhibit A. The final location of temporary routes shall be approved by the Authorized Officer. Fully decommission following use.</p> <p>Construction of short purchaser spurs as shown on Exhibit A may be needed in units 3-1, 8-1, 10-2, 18-7, and 33-1 to achieve one-end log suspension. These spurs have not been flagged. Final location shall be approved by the Authorized Officer. Fully decommission following use.</p> <p>Directional falling to lead and away from streams, unit boundaries, and resource buffers shown on Exhibit A will be required.</p>
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OH HENRY TIMBER SALE

SPECIAL PROVISIONS

<p><u>Cable Yard Units</u> <u>Continued</u> 1-11A, 1-11B, 2-1B, 2-2, 3-1, 3-5, 3-8, 3-8A, 3-12, 3-12A, 3-18, 7-5, 7-27, 7-28, 8-1, 8-8, 8-36, 9-13, 10-2, 10-2B, 10-4A, 10-4B, 10-5, 15-11B, 16-2, 18-7, 27-34, 33-1, 33-18, 35-4</p>	<p>Cable corridors that are hydrologically connected; or are perpendicular to and within two hundred (200) feet of streams shown on Exhibit A; or are located in the water bar designated areas of units 1-11B, 3-1, 3-8, and 33-1 as shown on Exhibit A shall be water-barred and shall have slash placed over them prior to winter rain events to protect water quality.</p> <p>Skyline equipment shall be capable of yarding in a multispan configuration.</p> <p>In units 2-1B, 8-1, 16-2, and 18-7 the Purchaser shall be allowed to walk yarder into the unit utilizing a tractor-cable swing system as approved by the Authorized Officer. In unit 8-1, parallel cable corridors required along east side of tractor-cable swing to minimize removal of large diameter trees.</p> <p>The Purchaser shall repair damage to any asphalt at his expense, as directed by the Authorized Officer.</p>
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Designated Area	Yarding Requirements or Limitations
<p><u>Helicopter Yard</u> Units 1-5, 1-11B</p>	<p>All yarding will be done with an aerial system.</p> <p>Landing size shall not exceed one (1) acre and all landings are to be approved by the Authorized Officer prior to construction.</p> <p>Service pads and helispots can be constructed with prior approval of the Contract Administrator and shall not be larger than necessary.</p> <p>A dropline with a minimum length of two hundred (200) feet is required.</p> <p>Logs to be yarded will be lifted vertically to a height above the adjacent leave trees without horizontal movement.</p>

OH HENRY TIMBER SALE

SPECIAL PROVISIONS

<u>Helicopter Yard</u> <u>Continued</u> Units 1-5, 1-11B	All multiple log turns will be vertically lifted from a small enough radius to result in minimal damage to the residual forest stand as determined by the Authorized Officer.
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- (12) L-14 No falling, yarding or loading is permitted in or through the streams, seeps, wetlands, or resource buffers as shown on Exhibit A.
- (13) L-17 Designated landings for units 7-5, 7-28, 9-5A, 9-13, 15-11B, 27-34, 33-18, and 33-28 shall be placed at the approximate locations as shown on Exhibit A. Any alternative landing sites must be approved by the Contracting Officer in the written operations and logging plan.
- (14) L-17 Helicopter landings shall be placed at the approximate locations as shown on Exhibit A. Any alternative landing sites must be approved by the Contracting Officer in the written operations and logging plan.
- (15) L-19 No mechanical ground based harvesting, ground based yarding, skid trail and landing rehabilitation, machine piling, temporary route construction, temporary route reconstruction, temporary route decommissioning, or non-emergency road maintenance shall be conducted in units 1-11A, 1-11B, 2-1, 2-1B, 2-2, 3-1, 3-3, 3-4A, 3-4B, 3-12A, 6-16, 7-27, 8-1, 8-7, 8-7A, 8-8, 8-36, 9-5, 9-5A, 9-5B, 9-5C, 9-13, 10-2, 15-11B, 16-2, 18-7, 27-8, 33-1, 33-18, 33-28, 35-4, 35-8, 31-9-35.1, 32-9-3.0, 32-9-16.1, and 32-9-16.2 between October 15 of one calendar year and May 15 of the following calendar year both days inclusive. Purchaser may request in writing, a conditional waiver of this restriction. If soil moisture conditions are dry, as determined by the inability of a soil sample taken at four (4) to six (6) inches to maintain form when compressed and by the inability of soil moisture at the surface to be readily displaced, causing ribbons and ruts along equipment tracks, the Contracting Officer may approve a conditional waiver. If impacts to soil resulting from said conditional waiver are not acceptable as determined by the Authorized Officer, the waiver will be revoked.
- (16) L-19 No haul on all natural surface and hydrologically connected rocked roads 31-9-35.1, 32-9-2.0, 32-9-7.0, 32-9-10.0, and 32-9-16.1 shall be conducted on the Contract Area between October 15 of one calendar year and May 15 of the following calendar year, both days inclusive. Purchaser may request in writing, a conditional waiver of this restriction. If the Authorized Officer determines that hauling would not result in road damage or the transport of sediment to nearby stream channels based on soil moisture conditions or rain events, Contracting

OH HENRY TIMBER SALE

SPECIAL PROVISIONS

Officer may approve a conditional waiver for hauling. If soil moisture conditions or rain events are anticipated to cause impacts to roads or stream water quality resulting from said conditional waiver are not acceptable as determined by the Authorized Officer, the waiver will be revoked.

- (17) L-19 No haul shall be conducted from units 1-5, 1-11A, and 1-11B between October 15 of one calendar year and May 15 of the following calendar year, both days inclusive. Purchaser may request in writing, a conditional waiver of this restriction. If the Authorized Officer determines that hauling would not result in road damage or the transport of sediment to nearby stream channels based on soil moisture conditions or rain events, Contracting Officer may approve a conditional waiver for hauling. If soil moisture conditions or rain events are anticipated to cause impacts to roads or stream water quality resulting from said conditional waiver are not acceptable as determined by the Authorized Officer, the waiver will be revoked.
- (18) L-20 No operations for units 1-11A, 2-1, 2-1B, 2-2, 3-1, 3-12, 7-27, 8-1, 10-2, 10-4A, 10-4B, 16-2, 18-7, 27-8, 27-34, 33-18, 33-28, 35-4, and part of unit 3-8 that is north of the MAMU seasonal restriction line as shown on Exhibit A shall be conducted between April 1 to August 5 of the same calendar year, both days inclusive.
- (19) L-20 No operations for units 1-11A, 2-1, 2-1B, 2-2, 3-1, 3-12, 7-27, 8-1, 10-2, 10-4A, 10-4B, 16-2, 18-7, 27-8, 27-34, 33-18, 33-28, 35-4, and part of unit 3-8 that is north of the MAMU seasonal restriction line as shown on Exhibit A shall be conducted from two (2) hours before sunset of one day through two (2) hours after sunrise the following day between August 6 and September 15 of the same calendar year, both days inclusive.
- (20) L-20 No operations for units 2-1B, 2-2, 3-1, 3-12, 3-18, 10-2, 27-34 as shown on Exhibit A shall be conducted between March 1 and June 30 or until two (2) weeks after the fledging period of the same calendar year, both days inclusive. This restriction may be extended until September 30 during the year of harvest if the operations would cause a nesting northern spotted owl to flush. This restriction will not apply if it can be shown from northern spotted owl protocol surveys conducted in accordance with accepted standards, as approved by the Contracting Officer, that northern spotted owl nesting and/or fledging activities are not occurring during the year and/or time of harvest.
- (21) L-22 During logging operations, the Purchaser shall keep the 31-9-35.0, 32-8-1.1, 32-9-3.0, and 32-9-16.2 roads, where it passes through the contract area, clear of

OH HENRY TIMBER SALE

SPECIAL PROVISIONS

trees, rock, dirt, and other debris so far as is practicable. The road shall not be blocked by such operations for more than thirty (30) minutes.

- (22) L-23 The Purchaser shall provide two (2) flaggers to control traffic on the 32-8-1.1 road where it passes through units 35-4 whenever logging operations are active or as required by OSHA regulations.
- (23) L-23 The Purchaser shall provide flaggers and/or signs to control traffic or alert forest road users of active operations on roads where it passes through or near active logging or hauling operations as required by OSHA regulations.
- (24) L-24 Before cutting and removing any trees necessary to facilitate logging in all units except 1-5, the helicopter yard portion of 1-11B, 2-1, 7-5, 10-2B, 18-7, 31-9-35.1, 32-9-3.0, 32-9-16.1, and 32-9-16.2 shown on Exhibit A, the Purchaser shall identify the location of the skid roads, cable yarding roads, and tailhold, tieback, guyline, lift, intermediate support, and danger trees on the ground in a manner approved by the Authorized Officer at the pre-work conference and documented in the Logging Plan. Said Purchaser identification of trees to be cut and removed does not constitute authority to proceed with cutting and removal. In addition, before proceeding with cutting the following conditions must be met:
 - (a) All skid roads and/or cable yarding roads upon which timber is identified by the Purchaser to be cut and removed in accordance with this special provision must be necessary for the safe and expeditious removal of timber sold under this contract and shall be limited to the minimum width necessary for yarding of logs with a minimum of damage to reserve trees, however, unless otherwise approved in writing by the Contracting Officer, the width of each skid road, and/or cable yarding road shall be limited to twelve (12) feet.
 - (b) The Purchaser may immediately cut and remove additional timber to clear skid roads and cable yarding roads; and provide tailhold, tieback, guyline, lift and intermediate support trees; and clear danger trees when the trees have been marked with pink paint above and below stump height by the Authorized Officer and thereby approved for cutting and removal by the Authorized Officer. The volume of the timber to be sold will be determined by the Authorized Officer in accordance with Bureau of Land Management prescribed procedures. No timber may be cut or removed under terms of this provision unless sufficient installment payments have been made in

OH HENRY TIMBER SALE

SPECIAL PROVISIONS

accordance with Section 3(b) of the contract or sufficient bonding has been provided in accordance with Section 3(d) of the contract.

- (c) The Purchaser agrees that sale of this additional timber shall be accomplished by a unilateral modification of the contract executed by the Contracting Officer and that such timber shall be sold at the unit prices shown in Exhibit B of this contract unless: the value of the timber must be reappraised subject to the terms for contract extension set forth in Section. 9 of the contract; or, the Authorized Officer determines that the species of trees are not listed in Exhibit B of this contract or any tree that exceeds forty (40) inches diameter at breast height shall be appraised and sold by bilateral modification of the contract at current fair market value in accordance with Section 8 of the contract.
- (d) This authorization for the Purchaser to cut and remove additional timber prior to the execution of a modification may be withdrawn by the Contracting Officer if the Authorized Officer determines that the Purchaser has cut and removed any tree not previously marked and approved for cutting by the Authorized Officer, which under Section 10 of the contract constitutes a violation of the contract and under Section 13 of the contract may constitute a trespass rendering the Purchaser liable for damages under applicable law.
- (e) If authorization is withdrawn, the Contracting Officer shall issue a written notice to the Purchaser that the sale of additional timber under this special provision is no longer approved. In this case, the Purchaser shall inform the Authorized Officer at least one (1) working day prior to the need for cutting and removing any additional timber, and execute a bilateral modification prior to cutting for such additional approved timber at the unit prices shown in Exhibit B of the contract or in accordance with Section 8 or Section 9 of the contract as determined by the Authorized Officer in accordance with this provision. The Contracting Officer may issue a written order to the Purchaser to suspend, delay, or interrupt any or all contract work for the period of time deemed necessary and appropriate for the Government to safely measure and mark additional timber.
- (f) The Government may reserve trees previously designated for cutting and removal by blacking out blue paint, and/or applying orange paint as replacements for additional trees cut and removed for skid roads and/or cable yarding roads when the Authorized Officer determines such

OH HENRY TIMBER SALE

SPECIAL PROVISIONS

reservation is necessary to maintain stand densities consistent with objectives set forth in the management prescriptions. This may include the replacement of trees damaged by storm events, or insects or disease. The volume of this timber to be reserved will be determined by the Authorized Officer in accordance with Bureau of Land Management prescribed procedures and the value shall be based on the unit prices shown in Exhibit B of the contract. The Purchaser agrees that the Total Purchase Price shall be reduced accordingly through a unilateral modification to the contract executed by the Contracting Officer.

- (25) L-33 Purchaser's operations shall facilitate BLM's safe and practical inspection of Purchaser's operations and BLM's conduct of other official duties 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 Actual 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.

OH HENRY TIMBER SALE

SPECIAL PROVISIONS

(B) ROAD CONSTRUCTION, MAINTENANCE, AND USE

- (1) R-1: The Purchaser shall construct, improve, renovate and decommission all roads and temporary routes in strict accordance with the plans and specifications shown on Exhibit C and D, which is attached hereto and made a part hereof.
- (2) R-1a: Any required construction, improvement, 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) R-1b: The Purchaser shall construct, reconstruct, use, and decommission temporary routes by October 15th of the same respective operating season.
- (4) R-1c: The Purchaser shall not commence work on road renovation and reconstruction until receipt of written notice to do so from the Authorized Officer. Work shall commence no later than fourteen (14) days after such notice, and shall be completed within one (1) year after such notice.
- (5) R-2: The Purchaser is authorized to use the roads listed and shown on Exhibit C and D for the removal of Government timber sold under the terms of this contract and/or the hauling of rock as required in Exhibit C, provided that the Purchaser pay the required maintenance and rockwear obligations described in Section 42(B)(7). Any road listed on Exhibit D and requiring construction, improvement, or renovation in Exhibit C of this contract, shall be maintained by the Purchaser until receiving written acceptance of the construction, improvement, or renovation from the Contracting Officer. The Purchaser shall pay current Bureau of Land Management maintenance and rockwear fees for the sale of additional timber under modification to the contract.

Road Number and Segment	Length miles used	Road Control	Road Surface Type	Maintenance Responsibility
30-6-32.0	0.29	BLM	BST	BLM
31-9-27.1 A	0.57	BLM	NAT	Purchaser
31-9-27.1 B	0.55	BLM	NAT	Purchaser
31-9-27.4	0.20	Cow Creek Band of Umpqua Tribe of Indians	NAT	Purchaser
31-9-34.0	0.37	BLM	PRR	Purchaser

OH HENRY TIMBER SALE

SPECIAL PROVISIONS

31-9-34.1 A	0.07	BLM	GRR	Purchaser
31-9-34.1 B	1.04	BLM	GRR	Purchaser
31-9-34.2	0.16	Weyerhaeuser Co.	ASC	Purchaser
31-9-35.0 A	0.15	BLM	BST	BLM
31-9-35.0 B	0.78	BLM	BST	BLM
31-9-35.0 C	0.79	BLM	BST	BLM
31-9-35.0 D	0.13	BLM	BST	BLM
31-9-35.0 E	0.48	BLM	BST	BLM
31-9-35.0 F	0.21	BLM	BST	BLM
31-9-35.0 G	0.58	BLM	BST	BLM
31-9-35.0 H	0.07	BLM	BST	BLM
31-9-35.0 I	0.59	BLM	BST	BLM
31-9-35.0 J	0.33	BLM	BST	BLM
31-9-35.0 K	0.52	BLM	BST	BLM
31-9-35.1 A	1.23	BLM	GRR	Purchaser
31-9-35.1 B	0.87	BLM	GRR	Purchaser
31-9-35.1 C	0.37	BLM	GRR	Purchaser
31-9-35.1 D	0.74	BLM	GRR	Purchaser
32-8-1.1	10.81	BLM	BST	BLM
32-8-31.0 A	1.76	BLM	BST	BLM
32-8-31.0 B	3.66	BLM	BST	BLM
32-8-31.0 C	1.72	BLM	BST	BLM
32-8-9.2	6.31	BLM	BST	BLM
32-9-10.0 A	0.05	BLM	PRR	Purchaser
32-9-10.0 B	1.26	BLM	PRR	Purchaser
32-9-10.1 A	0.28	BLM	NAT	Purchaser
32-9-10.1 B	0.57	BLM	NAT	Purchaser
32-9-10.1 C	0.39	BLM	NAT	Purchaser
32-9-10.4	0.24	BLM	NAT	Purchaser
32-9-15.0	1.10	BLM	PRR	Purchaser
32-9-16.1 A	0.45	BLM	GRR	Purchaser
32-9-16.1 B	0.20	BLM	GRR	Purchaser
32-9-16.1 C	0.30	BLM	GRR	Purchaser
32-9-16.1 D	1.36	BLM	GRR	Purchaser
32-9-16.2 A	0.60	BLM	GRR	Purchaser
32-9-16.2 B	0.71	BLM	GRR	Purchaser

OH HENRY TIMBER SALE

SPECIAL PROVISIONS

32-9-16.2 C	1.29	BLM	GRR	Purchaser
32-9-16.2 D	0.07	BLM	GRR	Purchaser
32-9-16.3	0.04	BLM	GRR	Purchaser
32-9-16.4	0.27	BLM	NAT	Purchaser
32-9-16.5	0.13	BLM	NAT	Purchaser
32-9-2.0	0.32	BLM	GRR	Purchaser
32-9-2.1	0.13	BLM	PRR	Purchaser
32-9-3.0 A	0.30	BLM	PRR	Purchaser
32-9-3.0 B	0.51	BLM	PRR	Purchaser
32-9-3.0 C	0.46	BLM	PRR	Purchaser
32-9-3.0 D	2.94	BLM	PRR	Purchaser
32-9-7.0 A	0.24	BLM	GRR	Purchaser
32-9-7.0 B	0.66	BLM	PRR	Purchaser
32-9-7.4 A	0.56	BLM	GRR	Purchaser
32-9-7.4 B	0.11	BLM	GRR	Purchaser
32-9-7.5	0.56	BLM	GRR	Purchaser
32-9-8.0 A	0.20	BLM	NAT	Purchaser
32-9-8.0 B	0.33	BLM	NAT	Purchaser
32-9-8.1	0.08	BLM	NAT	Purchaser
32-9-8.4 A	0.94	BLM	NAT	Purchaser
32-9-8.4 B	0.44	BLM	NAT	Purchaser
32-9-9.1	0.05	BLM	ABC	Purchaser
33-7-2.0	9.71	BLM	BST	BLM

- (6) R-2a: With the prior written approval of the Authorized Officer, the Purchaser may arrange for cooperative maintenance with other users of roads needs for the list here included in Section 42(B)(5) of this contract; provided, that such cooperative arrangement shall not relieve the Purchaser of his liability for the maintenance and repair of such roads resulting from wear or damage, in accordance with this contract. The Purchaser shall furnish the Authorized Officer a copy of any cooperative maintenance agreements entered into with other users on these roads.
- (7) R-2d: The Purchaser shall pay a road maintenance fee of \$0.92 per thousand board feet log scale per mile on BLM maintained BST roads and a rockwear fee of \$0.60 per thousand board feet log scale per mile for the use of Purchaser maintained aggregate roads listed in this contract. The total maintenance fee due shall be based upon volumes determined pursuant to Exhibit B of this contract and mileage of roads used as determined by the Authorized Officer. Prior to the use of such roads,

OH HENRY TIMBER SALE

SPECIAL PROVISIONS

the Purchaser shall give written notice to the Authorized Officer of the roads intended for use in the removal of timber purchased under this contract, together with an estimate of the volume to be hauled over such roads. The Authorized Officer shall establish an installment schedule of payment of the maintenance obligation. If it is determined by the Authorized Officer, after all merchantable timber has been cut and scaled, that the total maintenance payments made under this contract exceed the total maintenance and rockwear payment due, such excess shall be returned to the Purchaser after such determination is made.

- (8) R-2e: The Contracting Officer may at any time, by written notice, terminate the Purchaser's operator road maintenance obligations and require instead payment of current Bureau of Land Management road maintenance for the particular surface type of the road(s) involved. These fees will be applied to the remaining contract volume on the sale area, as determined by the Authorized Officer, to be transported over the road(s) listed in Section 42(B)(5). If the total road maintenance and rockwear fee does not exceed five hundred and no/100 dollars (\$500.00), the Purchaser shall pay such amount in full prior to use of such roads. If the total road maintenance and rockwear fee exceeds five hundred and no/100 dollars (\$500.00), the Authorized Officer shall establish an installment schedule of payments of the maintenance and rockwear obligations.
- (9) R-2f: The Purchaser shall perform any required road repair and maintenance work on roads used by them, under the terms of Exhibit D, Road Maintenance Specifications, of this contract, which is attached hereto and made a part hereof.
- (10) R-3: In the use of Road No. 31-9-34.2, the Purchaser shall comply with the conditions of Right-of-Way and Road Use Agreement No. M-605, dated March 1st 1961, between the United States of America and **Weyerhaeuser Company**. This document is available for inspection at the Medford District Office.

These conditions include:

- (a) Payment of a road use obligation of a to be determined amount upon the completion of a Road Use Fee Tributary Calculation between the BLM and Weyerhaeuser Company, payable at the time indicated in the License Agreement.
- (b) Payment of a rockwear obligation of **sixty seven and 50/100 dollars (\$67.50)** to **Weyerhaeuser Company**, payable at the time indicated in the License Agreement.

OH HENRY TIMBER SALE

SPECIAL PROVISIONS

- (c) Prior to the use of said road, the Purchaser shall furnish the Authorized Officer a properly signed copy of the executed License Agreement.
 - (d) Prior to cutting or removing any timber from the road right-of-way between MP 0.00 and MP 0.16 on Road No. 31-9-34.2, the Purchaser shall pay to Weyerhaeuser Timber Company the owner of the right-of-way timber, the total agreed upon price listed in the executed License Agreement.
 - (e) 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 of the violation of this provision.
- (11) R-3: In the use of Road No. 31-9-27.4, the Purchaser shall comply with the conditions of Right-of-Way and Road Use Agreement No. M-605, Dated March 1st 1961, between the United States of America and **Cow Creek Band of Umpqua Tribe of Indians**. This document is available for inspection at the Medford District Office.

These conditions include:

- (a) Payment of a road use obligation of a to be determined amount upon the completion of Road Use Fee Tributary Calculations between the BLM and Cow Creek Band of Umpqua Tribe of Indians, payable at the time indicated in the License Agreement.
- (b) Prior to the use of said road, the Purchaser shall furnish the Authorized Officer a properly signed copy of the executed License Agreement.
- (c) Prior to cutting or removing any timber from the road right-of-way between MP 0.00 and MP 0.20 on Road No. 31-9-27.4, the Purchaser shall pay to Cow Creek Band of Umpqua Tribe of Indians, the owner of the right-of-way timber, the total agreed upon price listed in the executed License Agreement.

OH HENRY TIMBER SALE

SPECIAL PROVISIONS

- (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 of the violation of this provision.
- (12) R-3: In the use of Temp Spur 33-28, the Purchaser shall comply with the conditions of Right-of-Way and Road Use Agreement No. M-605, Dated March 1st 1961, between the United States of America and **Cow Creek Band of Umpqua Tribe of Indians**. This document is available for inspection at the Medford District Office.

These conditions include:

- (a) Prior to the use of said road, the Purchaser shall furnish the Authorized Officer a properly signed copy of the executed License Agreement.
 - (b) Prior to cutting or removing any timber from the road right-of-way between Stations 6+20 and 8+95 on Temp Spur 33-28, the Purchaser shall pay to Cow Creek Band of Umpqua Tribe of Indians, the owner of the right-of-way timber, the total agreed upon price listed in the executed License Agreement.
 - (c) Default by the Purchaser of said Right-of-Way and Road Use Agreement, or any License Agreement executed pursuant thereto, for failure to pay appropriate 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 of the violation of this provision.
- (13) R-3: In the use of Tramway Wedge 27-34, the Purchaser shall comply with the conditions of Right-of-Way and Road Use Agreement No. M-605, Dated March 1st 1961, between the United States of America and **Cow Creek Band of Umpqua Tribe of Indians**. This document is available for inspection at the Medford District Office.

These conditions include:

OH HENRY TIMBER SALE

SPECIAL PROVISIONS

- (a) Prior to the use of said road, the Purchaser shall furnish the Authorized Officer a properly signed copy of the executed License Agreement.
 - (b) Prior to cutting or removing any timber from the approximate 0.25 acre tramway wedge, located adjacent to 31-9-27.4 Rd, the Purchaser shall pay to Cow Creek Band of Umpqua Tribe of Indians, the owner of the tramway timber, the total agreed upon price listed in the executed License Agreement.
 - (c) Default by the Purchaser of said Right-of-Way and Road Use Agreement, or any License Agreement executed pursuant thereto, for failure to pay appropriate 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 of the violation of this provision.
- (14) R-3: In the use of Temp Spur 33-28, the Purchaser shall comply with the conditions of Right-of-Way and Road Use Agreement No. M-605, Dated March 1st 1961, between the United States of America and **Weyerhaeuser Company**. This document is available for inspection at the Medford District Office.

These conditions include:

- (a) Prior to the use of said road, the Purchaser shall furnish the Authorized Officer a properly signed copy of the executed License Agreement.
- (b) Prior to cutting or removing any timber from the road right-of-way between Stations 0+00 thru 6+19 and Station 8+96 thru 15+05 on Temp Spur 33-28, the Purchaser shall pay to Weyerhaeuser Company, the owner of the right-of-way timber, the total agreed upon price listed in the executed License Agreement.
- (c) Default by the Purchaser of said Right-of-Way and Road Use Agreement, or any License Agreement executed pursuant thereto, for failure to pay appropriate 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 of the violation of this provision.

OH HENRY TIMBER SALE

SPECIAL PROVISIONS

- (15) R-3: In the use of Temp Spur 33-18, the Purchaser shall comply with the conditions of Right-of-Way and Road Use Agreement No. M-605, Dated March 1st 1961, between the United States of America and **Weyerhaeuser Company**. This document is available for inspection at the Medford District Office.

These conditions include:

- (a) Prior to the use of said road, the Purchaser shall furnish the Authorized Officer a properly signed copy of the executed License Agreement.
 - (b) Prior to cutting or removing any timber from the road right-of-way between Stations 0+00 and 7+00 on Temp Spur 33-18, the Purchaser shall pay to Weyerhaeuser Company, the owner of the right-of-way timber, the total agreed upon price listed in the executed License Agreement.
 - (c) Default by the Purchaser of said Right-of-Way and Road Use Agreement, or any License Agreement executed pursuant thereto, for failure to pay appropriate 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 of the violation of this provision.
- (16) R-3c: The Purchaser agrees that if they elect to use any other private road, which is the subject of a right-of-way agreement with the Government for the removal of Government timber sold under the terms of this contract, the Purchaser shall request and agree to the modification of this contract to provide for such use and for allowances for amortization of the Government's share of the capital investment of any such road.
- (17) R-4: The Purchaser shall be required to secure written approval to use vehicles or haul forest products and equipment over Government owned or controlled roads when such vehicles or equipment exceeds the maximum allowable weights or dimensions established by the State for vehicles operating without a permit or if vehicles meet allowable non-permitted State vehicle weights, but the haul route crosses a structure or segment of road that is posted for reduced weights. The Purchaser agrees to abide by any special requirements included in said written approval.

OH HENRY TIMBER SALE

SPECIAL PROVISIONS

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

Details shall include:

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

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

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

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

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

(C) ENVIRONMENTAL PROTECTION

- (1) E-1 In addition to the requirement set forth in Section 26 of this contract, the Purchaser shall implement the following noxious weed control measures:

OH HENRY TIMBER SALE

SPECIAL PROVISIONS

- (a) In order to prevent the potential spread of noxious weeds into the Medford District BLM, the operator would be required to clean all logging, construction, chipping, grinding, shredding, rock crushing, and transportation equipment prior to entry on BLM lands.
 - (b) Cleaning shall be defined as removal of dirt, grease, plant parts, and material that may carry noxious weed seeds into BLM lands. Cleaning prior to entry onto BLM lands may be accomplished by using a pressure hose.
 - (c) Only equipment inspected by the BLM would be allowed to operate within the Analysis Area. All subsequent move-ins of equipment as described above shall be treated the same as the initial move-in.
 - (d) Prior to initial move-in of any equipment, and all subsequent move-ins, the operator shall make the equipment available for BLM inspection at an agreed upon location off Federal lands.
 - (e) Equipment would be visually inspected by the Authorized Officer to verify that the equipment has been reasonably cleaned.
- (2) E-1 In addition to the requirement set forth in Sec. 26 of this contract, the Purchaser shall only use certified weed-free hay and native grass seed species approved by the Authorized Officer for rehabilitation activities. All seeding shall be contingent upon seed availability.
- (3) E-1 In addition to the requirement set forth in Sec. 26 of this contract, the Purchaser shall prepare a Spill Prevention, Control, and Countermeasure Plan for all hazardous substances to be used in the contract area, as directed by the Authorized Officer. Such plan shall include identification of Purchaser's representatives responsible for supervising initial containment action for releases and subsequent cleanup. Such plans must comply with the State of Oregon DEQ OAR 340-142, Oil and Hazardous Materials Emergency Response Requirements.
- (4) E-1 In addition to the requirement set forth in Sec. 26 of this contract, the Purchaser shall not refuel equipment, store, or cause to have stored, any fuel or other petroleum products within one hundred fifty (150) feet of all riparian management or wet areas. All Petroleum products shall be stored in durable containers and located so that any accidental releases will be contained and not drain into any stream system. Hydraulic fluid and fuel lines on heavy mechanized equipment would be in proper working condition in order to minimize potential for leakage

OH HENRY TIMBER SALE

SPECIAL PROVISIONS

into streams. Absorbent materials shall be onsite to allow for immediate containment of any accidental spills. Spilled fuel and oil shall be cleaned up and disposed of at an approved disposal site.

- (5) E-1 In addition to the requirement set forth in Sec. 26 of this contract, the Purchaser shall not locate new landings in areas that contribute eroded fines to streams, wet areas, dry draws and swales. If these landing locations cannot be avoided, ensure that properly installed sediment control measures are placed and maintained, as needed, to keep eroded material onsite.
- (6) E-1 In addition to the requirement set forth in Sec. 26 of this contract, the Purchaser shall ensure that silt fencing or other sediment control measures are properly placed and maintained during use and periods of non-use when utilizing landings or temporary routes that have the potential to release eroded fines into a stream or wet area, directly or via draws or ditchlines. Any project-related activity would be suspended if conditions develop that cause a potential for sediment laden runoff to enter a wetland, floodplain or waters of the state. Operations can resume when sediment control devices are in place and conditions allow turbidity standards to be met.
- (7) E-1 In addition to the requirement set forth in Sec. 26 of this contract, the Purchaser shall, prior to October 15 of the same operating season, winterize and rehabilitate temporary routes, landings, hydrologically connected corridors and skidtrails and other areas of exposed soils by properly installing and/or using water bars, berms, sediment basins, gravel pads, hay bales, small dense woody debris, seeding and/or mulching, to reduce sediment runoff and divert runoff water away from stream channels, headwalls, slide areas, high landslide hazard locations or steep erodible fill slopes as directed by the Authorized Officer.
- (8) E-1 In addition to the requirement set forth in Sec. 26 of this contract, the Purchaser shall hand construct waterbars and lop and scatter activity slash on cable corridors within the areas that contain fragile soils in units 3-1, 3-8, 33-1, and the cable yard portion of 1-11B as shown on Exhibit A and as directed by the Authorized Officer.
- (9) E-1 In addition to the requirement set forth in Section 26 of this contract, the Purchaser shall as directed by the Authorized Officer rehabilitate all ground based skid trails utilized within two hundred (200) feet of streams, all temporary routes, the cable-tractor swing route in units 2-1B, 8-1, 16-2, and 18-7, and all landings outside of the road prism by one of the following methods:

OH HENRY TIMBER SALE

SPECIAL PROVISIONS

- (a) If the Authorized Officer deems ripping will not cause unacceptable damage to the root systems of residual trees the Purchaser shall discontinuously subsoil with winged ripper teeth, simultaneously water bar, seed, mulch, and barricade.
 - 1. Use a minimum 200 flywheel horsepower tractor with mounted rippers having shanks and teeth consistent with drawings and specifications shown on Exhibit R of this contract, which, is attached hereto and made a part hereof.
 - 2. Rip to a depth of twelve (12) inches, and no further than thirty six (36) inches apart.
 - 3. Ripping will occur before **October 15** of the year of harvest.
 - 4. Any step landings shall be re-contoured following use.
- (b) If the Authorized Officer deems ripping will cause an unacceptable amount of damage to the root systems of residual trees the Purchaser shall scarify to a depth of up to six (6) inches and simultaneously water bar, seed, mulch, and barricade.

All rehabilitation shall occur within eighteen (18) months of harvest, during the dry season, and after pile burning is complete.

- (10) E-1 In addition to the requirement set forth in Sec. 26 of this contract, the Purchaser shall place material removed during excavation in locations where it cannot enter streams or other water bodies.
- (11) E-1 In addition to the requirement set forth in Sec. 26 of this contract, the Purchaser shall use dust abatement measures on the 32-8-9.2 (West Fork Cow Creek, 1 crossing), and the 32-8-1.1 (West Fork Cow Creek, 1 crossing) roads where these roads cross fish bearing streams if hauling causes un-acceptable levels of fine sediment that may enter into streams, as directed by the Authorized Officer.
- (12) E-2 The water bars to be constructed as required by Sec. 26(c) shall be constructed in accordance with the specifications shown on Exhibit C6 which is attached hereto and made a part hereof.

OH HENRY TIMBER SALE

SPECIAL PROVISIONS

- (13) E-3 The Purchaser shall immediately discontinue specified construction or harvesting operations upon written notice from the Contracting Officer that:
- (a) threatened or endangered plants or animals protected under the Endangered Species Act of 1973, as amended, may be affected by the operation, and a determination is made that consultation or reinitiation of consultation is required concerning the species prior to continuing operation, or;
 - (b) when, in order to comply with the Endangered Species Act or to protect occupied marbled murrelet sites in accordance with the Standards and Guidelines of the Medford District Record of Decision (ROD) and Resource Management Plan (RMP), the Contracting Officer determines it may be necessary to modify or terminate the contract, or;
 - (c) federal proposed, federal candidate, Bureau sensitive or State listed species protected under BLM Manual 6840 - Special Status Species Management - have been identified, and a determination is made that continued operations would affect the species or its habitat, or;
 - (d) other active raptor nests have been discovered, and a determination is made that continued operations under this contract would adversely affect the present use of the discovered nesting area by the raptor, or;
 - (e) when, in order to comply with a court order, which enjoins operations on the sale or otherwise requires the Bureau of Land Management to suspend operations, or;
 - (f) when, in order to comply with a court order, the Contracting Officer determines it may be necessary to modify or terminate the contract, or;
 - 1. 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 Contracting Officer determines that continued operations would affect the species or its habitat, or;
 - 2. when, in order to protect species which were identified for protection through survey and manage and/or protection buffer standards and guidelines established in the ROD and RMP, the

OH HENRY TIMBER SALE

SPECIAL PROVISIONS

Contracting Officer determines it may be necessary to modify or terminate the contract.

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

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

In the event of a suspension period or a combination of suspension periods that exceed a total of 30 days, the First Installment held on deposit may be temporarily reduced upon the written request of the Purchaser. For the period of suspension extending beyond 30 days, the First Installment on deposit may be reduced to five (5) percent of the First Installment amount listed in Section 3.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 Contracting Officer must first apply the amount of First Installment that could be refunded to the debt owed in accordance with the Debt Collection Improvement Act, as amended (31 USC 3710, et seq.). Upon Purchaser's receipt of a bill for collection and written notice from the Contracting Officer lifting the suspension, the Purchaser shall restore the First Installment to the full amount shown in Section 3.a. of the contract within 15 days after the bill for collection is issued, subject to Section 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 Contracting Officer lifting the suspension, the Purchaser shall reimburse the Government the amounts refunded or transferred. The Purchaser may choose to pay this reimbursement at once or in installments payable at the same

OH HENRY TIMBER SALE

SPECIAL PROVISIONS

time as payments are due for the timber under the contract and in amounts approximately equal to the expenses associated with the timber for which payment is due.

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

The Contracting Officer may determine that it is necessary to terminate the cutting and removal rights under the contract in order to comply with the Endangered Species Act, protect 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 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, marbled murrelet occupied site protection in accordance with the ROD and RMP, 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

OH HENRY TIMBER SALE

SPECIAL PROVISIONS

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.

- (14) E-5 The Purchaser shall notify the Authorized Officer in writing by February 1 of each calendar year in which operations are expected to take place on the contract area between March 1 and September 30, both days inclusive. If notification is not received by the Authorized Officer by February 1, felling, bucking, yarding, road construction, or any other activity with the potential to disturb nesting northern spotted owls (owls) may not be allowed during this time period.

Upon receipt of a notice that the Purchaser expects to perform such operations during this time period, the Government may conduct surveys to determine whether owls are nesting within 0.25 miles of the harvest units. If it is determined owls are not nesting or that no young have been produced, the Authorized Officer may lift the seasonal restriction on such operations. Without this approval, such operations are prohibited from March 1 through September 30 of each year.

- (15) E-6 In units 2-1B, 2-2, 3-1, 3-12, 3-18, 10-2, 27-34 no operations shall be conducted between March 1 and September 30, both days inclusive.
- (a) This is a seasonal restriction to protect northern spotted owls. The Purchaser may, at their own expense and risk, conduct surveys in order to potentially waive or modify this restriction.
 - (b) If the Purchaser elects to conduct surveys, the Purchaser must notify the Authorized Officer by February 15 of any calendar year that the Purchaser desires to conduct such surveys. Surveys must be completed to strict protocols and procedures that will be provided by the Authorized Officer. Survey plans and results must be approved by the Authorized Officer prior to issuance of any modification or reduction of the restrictions. If it is determined owls are not nesting or that no young have been produced, the Authorized Officer may lift the seasonal restriction on such operations or depending upon the results, surveys may result in the Contracting Officer invoking Section 42(A)(20)(L-20) including suspension of operations or increasing restrictions for the calendar year.

OH HENRY TIMBER SALE

SPECIAL PROVISIONS

- (16) E-7 In order to prevent the spread of *Phytophthora lateralis*, the Purchaser shall pressure wash all logging, construction, chipping, grinding, shredding, rock crushing, and transportation equipment after operating in units 1-11A and 1-11B. Washing shall occur off BLM lands and shall be accomplished prior to re-entry onto BLM lands and between sale locations as directed by the Authorized Officer. Cleaning shall be defined as removal of all dirt, grease, plant parts.

(D) MISCELLANEOUS PROVISIONS

- (1) M-2 The Government, at its option, may administratively check scale any portion of the timber removed from the contract area, and if necessary, conduct check scaling of independent scalers contracted to BLM for administrative check scaling purposes. The Purchaser hereby agrees to make such contract timber available for such scaling at a location or locations to be approved in writing by the Authorized Officer. At the approved location or locations, the Purchaser shall provide an area for logs to be safely rolled out for scaling, to unload logs from trucks, place logs in a manner so that both ends and three faces of each log are visible for scaling, and to reload or remove logs after scaling has been completed. In the event that BLM elects to administratively check scale and if such check scaling causes a delay in log transportation time, an adjustment will be made to the purchase price as follows: If the entire sale is check scaled, the purchase price of this contract shall be reduced by six thousand one hundred twelve and 50/100 dollars (\$6,112.50). In the event that only a portion of the contract timber is scaled, the purchase price shall be reduced by that portion of six thousand one hundred twelve and 50/100 dollars (\$6,112.50) which is equal to the percentage of timber sold which was actually scaled by the Government. For purposes of computing this price reduction, the percentage of timber sold which has been scaled shall be determined by the Government. Any reduction in purchase price under the terms of this provision shall be full compensation to the Purchaser for any expense or loss incurred as a result of such scaling. Scaling shall be conducted in accordance with the Northwest Log Rules Eastside Log Scaling Handbook, as amended, or supplemented by BLM before the first advertisement date of the sale, by BLM scalers, and/or independent scalers contracted to BLM. A copy of the scale report will be made available to the Purchaser upon request.

(E) FIRE PREVENTION

- (1) F-1 Fire Prevention and Control. Primarily for purposes of fire prevention and control, the Purchaser shall, prior to the operation of power driven equipment in construction or logging operations under this contract during the closed fire season

OH HENRY TIMBER SALE

SPECIAL PROVISIONS

or periods of fire danger, prepare a fire prevention and control plan to the satisfaction of the of the Authorized Officer.

- (2) F-1a Fire Prevention and Control. Primarily for purposes of fire prevention and control, the Purchaser shall comply with the following provisions:

(a) At least three (3) days prior to the operation of power-driven equipment during any operations under this contract during the closed fire season or periods of fire danger, prepare a fire prevention and control plan to the satisfaction of the Authorized Officer and the State of Oregon Department of Forestry.

(b) Provide and maintain on the contract area in good working order, and immediately available, the following equipment for use during closed fire season or periods of fire danger:

1. F-2a Fire fighting tools shall be kept at each landing or at such other place as the Authorized Officer shall designate whenever employees are working on the contract area. All fire fighting tools shall be kept in a sturdily constructed box which shall be painted red and lettered on the front or top in large letters, "For Fire Only." The box shall have a hinged lid and a hasp by which the lid can be sealed. One box may serve two landings not over six hundred (600) feet apart. When filled, the box shall not weigh over two hundred (200) pounds. The fire tools shall be in good condition, be tight on strong handles, and have sharp cutting edges. There shall be not less than four (4) tools in each box nor less than one (1) tool for each employee working on the contract area. Three-fourths (3/4) of all fire tools shall be shovels, hazel hoes, or other scraping tools. The fire tools shall be used only for fighting fire.

2. F-2b At each landing or such other place as the Authorized Officer shall designate during periods of operation one (1) tank truck of three hundred (300) gallons or more capacity with five hundred (500) feet of 1½ inch hose (must be adequate length to reach two hundred (200) feet beyond active work sites), six (6) 1½ inch wyes, six (6) 1½ inch to 1 inch reducers, three (3) 1½ inch nozzels and three (3) 1 inch nozzles. One (1) three hundred (300) gallon fire engine may be substituted for each required three hundred (300) gallon tank truck, provided that the total capability to pump and

OH HENRY TIMBER SALE

SPECIAL PROVISIONS

deliver water remains unchanged. Each fire engine/tank truck shall be equipped with a pump capable of delivering a minimum of forty (40) gallons per minute (gpm) water flow at one hundred fifty (150) pounds per square inch (psi) engine pressure through fifty (50) feet of 1½ inch fire hose. The pump may be either power take off driven or truck-mounted auxiliary engine driven, or portable. All equipment shall be acceptable to and approved by the Authorized Officer and shall conform to the standards set forth in Oregon Revised Statutes 477.645 through 477.670. All hose couplings shall have the standard thread adopted by the BLM (1 ½ inches National Hose Thread (NH), 1 inch National Pipe Straight Hose Thread (NPSH) or be provided with suitable adapters. At the close of each working day, all bulldozers and (fire/tank) trucks shall be filled with fuel and made ready for immediate use. All (fire/tank) trucks shall be filled with water and made available for immediate use.

3. F-2c Serviceable cell phone or radio equipment able to provide prompt and reliable communication between the contract area, Medford BLM District Office, and Oregon Department of Forestry. Such communication shall be available during periods of operation including the time watchman service is required.
 4. F-2d A pair of headlights capable of being quickly attached to each bulldozer used on the contract area. The headlights shall be adequate to provide illumination sufficient to allow use of the bulldozers for fire fighting and construction of fire lines at night.
 5. F-2f A headlamp for each employee in the woods crew adequate to provide sufficient illumination for night firefighting. A headlight shall be of the type that can be fastened to the head so as to allow independent use of the hands. At least one extra set of batteries shall be provided for each such headlight.
 6. F-2f Two (2) back-pack pumps at each landing and one (1) at each tail block, all to be kept full of water and in good operating condition.
- (c) F-2g A chemical fire extinguisher of at least eight (8) ounces minimum capacity of a type approved by the Authorized Officer and a size 0 or larger shovel shall be carried during the closed fire season or periods of fire danger

OH HENRY TIMBER SALE

SPECIAL PROVISIONS

by each falling crew and each buckner using a power saw on the contract area. Such fire extinguisher shall be filled and in effective operating condition and shall at all times be immediately available to the operator when the saw is being fueled or the motor of the saw is running. Any fueling of a power saw shall be done in an area which has first been cleared of all flammable material. Power saws shall be moved at least twenty (20) feet from the place of fueling before the engine is started. Each power saw shall be equipped with an exhaust system and a spark arresting device which are of types approved by the Authorized Officer.

- (d) F-5 Where blocks and cables are used on the contract area during periods of fire danger, the Purchaser shall remove all flammable material at least ten (10) feet from the place where the tail or any other block will hang when the cable is tight. Such clearings shall be inspected periodically by the Purchaser and shall be kept free of flammable material.
- (3) F-9 During Oregon Department of Forestry regulated use closure, no smoking shall be permitted outside of closed vehicles.

(F) SLASH DISPOSAL

- (1) SD-1 Fire Hazard Reduction. In addition to the requirements of Sec. 15 of this contract, and notwithstanding the Purchaser's satisfactory compliance with State laws and regulations regarding offsetting or abating the additional fire hazard created by this operation and the State's willingness to release the Purchaser from liability for such hazard, the Purchaser shall remain responsible to the Government for performance of the following hazard reduction measures required by this contract:
 - (a) SD-1a LOP & SCATTER Lop and scatter all slash in units 7-5, 7-28, 9-5A, 27-34, 33-18, and 33-28 concurrently with normal felling operations. Lop and scatter all slash located beyond one hundred (100) feet of roads where the road coincides with a harvest unit boundary in the cable portion of unit 2-1B concurrently with normal felling operations. Lop and scatter all slash located beyond two hundred (200) feet of roads where the road coincides with a harvest unit boundary in all cable portions of units 1-11A, 1-11B, 3-1, 3-5, 3-8A, 3-12, 3-18, 9-5B, 10-2, 10-4A, 10-5, 16-2, and 35-4 concurrently with normal felling operations. Lop and scatter all slash located outside of machine and hand pile treatment areas in all cable portions of units 3-8, 8-1, 8-8, 15-11B, 18-7, and 33-1 concurrently with

OH HENRY TIMBER SALE

SPECIAL PROVISIONS

normal felling operations. All top and side branches must be free of the central stem so that such stem is reduced to the extent that it is within eighteen (18) inches of the ground at all points. Slash includes all woody material (brush, limbs, tops, unmerchantable stems, or chunks) severed, uprooted, or broken from live plants as a result of Purchaser's operations under the terms of this contract. Lop and scatter shall be completed in accordance with Exhibit S as directed by the Authorized Officer.

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

(b) SD-1b MACHINE PILE ROADSIDE Pile and burn all slash cut within fifteen (15) feet on each side of roads in roadside management units 31-9-35.1, 32-9-3.0, 32-9-16.1, and 32-9-16.2. Slash shall be piled by machine and piles shall be located away from reserve trees, snags, and coarse woody debris. Finished piles shall be tight and free of earth and other non-woody debris, and covered with a ten (10) foot by ten (10) foot cover of four (4) millimeter black polyethylene plastic cap to maintain a dry ignition point. The cover shall be firmly fixed to each pile to hold it in place with woody debris or tied with rope or twine to ensure coverage. Coverage shall be completed when piles are constructed, or as directed by the Authorized Officer. Machine pile shall be completed in accordance with Exhibit S as directed by the Authorized Officer.

1. The BLM will prepare a fire burn plan. The purchaser shall obtain smoke clearance before ignition of piles.
2. Slash includes woody material (brush, limbs, tops, unmerchantable stems, or chunks) severed, uprooted, or broken from live plants as a result of Purchaser's operations under the terms of this contract.
3. All equipment shall be approved by the Authorized Officer. Piling shall be accomplished using a track mounted hydraulic excavator or equivalent with at least a five (5) tooth brush rake. The excavator shall have a minimum reach of twenty (20) feet. The excavator shall be equipped with a hydraulic thumb or rotating controllable grapple head.

OH HENRY TIMBER SALE

SPECIAL PROVISIONS

4. Machine piling operations in roadside management units are limited to existing road surfaces and to seasonal restrictions described in Sec. 42(A)(15)(L-19).
5. Machine piles shall be constructed as compactly as possible. There should be an adequate supply of fine fuels located within and under the covered area of the pile to ensure ignition of the larger fuels. Completed piles shall be free of projecting limbs or slash which would interfere with adequate covering of the piles.
6. Machine piles will be burned within eighteen (18) months of harvest completion.
7. Machine piles shall not be placed within fifteen (15) feet of snags, stumps, reserve trees or large woody debris.
8. Machine piles will be burned in the fall to spring season after one (1) or more inches of precipitation have occurred.
9. The purchaser shall burn one hundred (100) percent of machine piles with a minimum consumption of ninety (90) percent.
10. The Purchaser is required to furnish the fuel and equipment for machine pile burning.

(c) SD-1c MACHINE PILE Pile and burn all slash situated in ground-based yard portion of units 1-11A, 2-1, 2-1B, 3-1, 3-3, 3-4A, 3-4B, 6-16, 7-27, 8-1, 8-7, 8-7A, 8-36, 9-5, 9-5C, 9-13, 18-7, 27-8, 33-1, 35-4, and 35-8, and all slash resulting from temporary route construction and reconstruction for units 1-11B, 3-1, 3-12A, 8-1, 8-8, 9-13, 10-2, 15-11B, 16-2, 18-7, 33-1, 33-18, 33-28, and 35-4. Slash shall be piled by machine. Piling shall be completed in accordance with Exhibit S as directed by the Authorized Officer. Finished piles shall be tight and free of earth.

1. The BLM will prepare a fire burn plan. The purchaser shall obtain smoke clearance before ignition of piles.
2. Slash includes woody material (brush, limbs, tops, unmerchantable stems, or chunks severed, uprooted, or broken from live plants as a result of Purchaser's operations under the terms of this contract.

OH HENRY TIMBER SALE

SPECIAL PROVISIONS

3. All equipment shall be approved by the Authorized Officer. Piling shall be accomplished using a track mounted hydraulic excavator or equivalent with at least a five (5) tooth brush rake. The excavator shall have a minimum reach of twenty (20) feet. The excavator shall be equipped with a hydraulic thumb or rotating controllable grapple head. Finished piles shall be tight and free of dirt and other non woody debris.
4. Machine piling operations are limited to roads and existing skid trails in ground based units; to slopes less than thirty five (35) percent slope; and to seasonal restrictions described in Sec. 42(A)(15)(L-19).
5. Machine piles shall be constructed as compactly as possible. There should be an adequate supply of fine fuels located within and under the covered area of the pile to ensure ignition of the larger fuels. Completed piles shall be free of projecting limbs or slash which would interfere with adequate covering of the piles.
6. Machine piles shall be adequately covered with a cap of ten (10) feet by ten (10) feet of four (4) millimeter black polyethylene plastic. The plastic shall be held in place with woody debris or tied with rope or twine to ensure coverage. Coverage shall be completed when piles are constructed, or as directed by the Authorized Officer.
7. Machine piles will be burned within eighteen (18) months of harvest completion.
8. Machine piles shall not be placed within fifteen (15) feet of snags, stumps, reserve trees or large woody debris.
9. Machine piles will be burned in the fall to spring season after one (1) or more inches of precipitation have occurred.
10. The purchaser shall burn one hundred (100) percent of machine piles with a minimum consumption of ninety (90) percent.
11. The Purchaser is required to furnish the fuel and equipment for machine pile burning.

OH HENRY TIMBER SALE

SPECIAL PROVISIONS

- (d) SD-1c HAND PILE Pile and burn all slash situated in units 3-12A and 10-4B. Pile and burn all slash (following the selective slashing treatment) in units 2-2 and 10-2B. Pile and burn all slash situated within one hundred (100) feet of roads where the road coincides with a harvest unit boundary in the cable portion of unit 2-1B. Pile and burn all slash situated within two hundred (200) feet of roads where the road coincides with a harvest unit boundary in all cable portions of units 1-11A, 1-11B, 3-1, 3-5, 3-8A, 3-12, 3-18, 7-27, 8-36, 9-5B, 9-13, 10-2, 10-4A, 10-5, 16-2, and 35-4. Pile and burn all slash situated within one hundred (100) feet of road 31-9-35.0 and within two hundred (200) feet of road 32-9-3.0 where the road coincides with a harvest unit boundary in the cable portion of unit 3-8. Pile and burn all slash situated within one hundred (100) feet of road 32-9-16.2 and within two hundred (200) feet of road 32-9-8.4 where the road coincides with a harvest unit boundary in the cable portion of unit 8-1. Pile and burn all slash situated within one hundred (100) feet of road 32-9-16.1 and within two hundred (200) feet of the temporary route where the road/route coincides with a harvest unit boundary in the cable portion of unit 8-8. Pile and burn all slash situated within one hundred (100) feet of road 32-9-3.0 and within two hundred (200) feet of road 32-9-16.4 where the road coincides with a harvest unit boundary in the cable portion of unit 15-11B. Pile and burn all slash situated within one hundred (100) feet of road 32-9-7.0 and within two hundred (200) feet of road 32-9-8.4 where the road coincides with a harvest unit boundary in the cable portion of unit 18-7. Slash shall be piled by hand. Piling shall be completed in accordance with Exhibit S as directed by the Authorized Officer. Finished piles shall be tight and free of earth.
1. The BLM will prepare a fire burn plan. The purchaser shall obtain smoke clearance before ignition of piles.
 2. Slash includes woody material (brush, limbs, tops, unmerchantable stems, or chunks severed, uprooted, or broken from live plants as a result of Purchaser's operations under the terms of this contract.
 3. Hand pile all slash which is between one (1) and six (6) inches in diameter on the large end and exceeds two (2) feet in length, or as directed by the Authorized Officer.
 4. Hand piles shall be constructed as compactly as possible. There should be an adequate supply of fine fuels located within and under

OH HENRY TIMBER SALE

SPECIAL PROVISIONS

the covered area of the pile to ensure ignition of the larger fuels. Completed piles shall be free of projecting limbs or slash which would interfere with adequate covering of the piles.

5. Hand piles shall be placed within unit boundaries, however, outside of wildlife buffers, roadways, turnouts, shoulders, or cut banks, No hand piles shall be located in any stream channel, down logs, stumps or within ten (10) feet of any other pile or trunk of the nearest reserve tree. No portion of the pile will be under the crown of any living tree. No piles shall be placed adjacent to or within twenty five (25) feet of unit boundaries.
 6. Hand piles shall be adequately covered with a minimum cap of five (5) feet by five (5) feet of four (4) millimeter black polyethylene plastic that is large enough to cover 80% of the pile to ensure ignition. The plastic shall be held in place with woody debris or tied with rope or twine to ensure coverage. Coverage shall be completed when piles are constructed, or as directed by the Authorized Officer.
 7. Hand piles would not be constructed on roadways, turnouts, shoulders, or on the cut bank, unless authorized by the Authorized officer.
 8. Hand piles will be burned within eighteen (18) months of harvest completion.
 9. Hand piles will be burned in the fall to spring season after one (1) or more inches of precipitation have occurred.
 10. The purchaser shall burn ninety (90) percent of hand piles with ninety (90) percent consumption for satisfactory completion of treatment.
 11. The Purchaser is required to furnish the fuel and equipment for hand pile burning.
- (e) SD-1f LANDINGS Within twenty (20) feet of the edge of each landing, all tops, broken pieces, limbs and debris more than one (1) inch in diameter at the large end and longer than two (2) feet in length shall be piled within fourteen (14) days of completion of hauling logs from that landing. Landing

OH HENRY TIMBER SALE

SPECIAL PROVISIONS

piles shall be kept free of dirt and located off the driving surface of roads and at least fifteen (15) feet from any Reserve Tree and/or as directed by the Authorized Officer.

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

1. Landing piles will be burned in the fall to spring season after one (1) or more inches of precipitation have occurred.
 2. Landing piles will be burned within eighteen (18) months of harvest completion.
 3. If purchaser elects to set aside pole/firewood decks and not put the material in landing piles, the purchaser will be required to remove decks before the expiration of cutting rights.
- (2) SD-2 Notwithstanding the provisions of Sec. 15 of this contract, the Government shall assume all obligations for disposal or reduction of fire hazards created by Purchaser's operations on Government lands, except for except for burning and mop up assistance as required herein, and measures required in Section 42(F)(1)(SD-1) and Section 42(F)(3)(SD-4). In accordance with written instruction to be issued by the Authorized Officer at least ten (10) days in advance of earliest date of required performance, the Purchaser shall, under supervision of the Authorized Officer or his designated representative, assist in preparing units for burning, mop-up, and patrol by furnishing, at his own expense, the services of personnel and equipment on each unit as shown below.

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

OH HENRY TIMBER SALE

SPECIAL PROVISIONS

(a) For Igniting and Burning Hand Pile Units 1-11A, 1-11B, 2-1B, 2-2, 3-1, 3-5, 3-8, 3-8A, 3-12, 3-12A, 3-18, 7-27, 8-1, 8-8, 8-36, 9-5B, 9-13, 10-2, 10-2B, 10-4A, 10-4B, 10-5, 15-11B, 16-2, 18-7, and 35-4:

1. One (1) person to supervise crew and equipment operators, and to serve as Purchaser's representative.
2. One (1) crew with ten (10) members per crew, including a designated crew foreman. Each crew shall be equipped with fuel, drip torches, shovels, pulaskis, one (1) power saw and one (1) backpack pump; one (1) tool for each crew member.
3. One (1) tank truck driver.
4. One (1) tank truck. Each truck shall have three hundred (300) gallons or more capacity with one thousand (1,000) feet of hose and nozzle(s) acceptable to the Authorized Officer. All hose couplings shall have the standard thread adopted by the State Fire Marshall pursuant to ORS 476.610 as amended. Each truck shall be equipped with a mounted pump conforming to the standards set forth in ORS 477.645 through ORS 477.670 and any rule promulgated pursuant to those statutes. Truck and tank shall be in good working order and shall be filled with water.
5. Ten (10) drip torches, Forester Sealtite, or equivalent.
6. Hand ignition with drip torches is required in pile burn units.
7. All ignition personnel will be directly supervised by a BLM representative.

(b) Mop-up of Hand Pile Units 1-11A, 1-11B, 2-1B, 2-2, 3-1, 3-5, 3-8, 3-8A, 3-12, 3-12A, 3-18, 7-27, 8-1, 8-8, 8-36, 9-5B, 9-13, 10-2, 10-2B, 10-4A, 10-4B, 10-5, 15-11B, 16-2, 18-7, and 35-4:

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

OH HENRY TIMBER SALE

SPECIAL PROVISIONS

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

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

(c) For Igniting and Burning Machine Pile Units 1-11A, 2-1, 2-1B, 3-1, 3-3, 3-4A, 3-4B, 6-16, 7-27, 8-1, 8-7, 8-7A, 8-36, 9-5, 9-5C, 9-13, 18-7, 27-8, 33-1, 35-4, 35-8, 31-9-35.1, 32-9-3.0, 32-9-16.1, and 32-9-16.2, all temporary routes, and landing piles in all units:

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

OH HENRY TIMBER SALE

SPECIAL PROVISIONS

5. Six (6) drip torches, Forester Sealtite, or equivalent.
 6. Hand ignition with drip torches is required in machine pile units.
- (d) Mop-up of Machine Pile Units 1-11A, 2-1, 2-1B, 3-1, 3-3, 3-4A, 3-4B, 6-16, 7-27, 8-1, 8-7, 8-7A, 8-36, 9-5, 9-5C, 9-13, 18-7, 27-8, 33-1, 35-4, 35-8, 31-9-35.1, 32-9-3.0, 32-9-16.1, and 32-9-16.2, all temporary routes, and all landing piles in all units:
1. One (1) person to supervise crew and to serve as Purchaser's representative.
 2. One (1) crew with six (6) members per crew, including a designated crew foreman. Each crew shall be equipped with shovels, pulaskis, or scraping tool, one (1) power saw and one (1) backpack pump; one (1) tool for each crew member.
 3. One (1) tank truck driver.
 4. One (1) tank truck. Each truck shall have three hundred (300) gallons or more capacity with one thousand (1,000) feet of hose and nozzle(s) acceptable to the Authorized Officer. All hose couplings shall have the standard thread adopted by the State Fire Marshall pursuant to ORS 476.610 as amended. Each truck shall be equipped with a mounted pump conforming to the standards set forth in ORS 477.645 through ORS 477.670 and any rule promulgated pursuant to those statutes. Truck and tank shall be in good working order and shall be filled with water.

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

All listed personnel shall be physically fit, experienced and fully capable of functioning as required. All personnel shall arrive at the project areas with the following personal safety equipment: long sleeve natural fabric shirt, full length natural fabric trousers, minimum eight (8)-inch top leather boots, hardhat, and leather gloves. All personnel shall wear long pants and long sleeve shirts, lug-soled

OH HENRY TIMBER SALE

SPECIAL PROVISIONS

leather boots with minimum eight (8)-inch tall uppers that provide ankle support, approved hardhat, and leather gloves. On the day of ignition, clothing shall be of approved aramid fabric (Nomex™ or equivalent) and all personnel shall carry an approved fire shelter. Clothing shall be free of diesel fuel oil.

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

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

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

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

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

OH HENRY TIMBER SALE

SPECIAL PROVISIONS

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

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

- (3) SD-4 Logging Residue Reduction. In addition to the requirements of Secs. 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 from liability for such hazard, the Purchaser shall remain responsible to the Government for performance of the following logging residue reduction and site preparation measures required by this contract:

- (a) SELECTIVE SLASHING Perform selective slashing in units 2-2 and 10-2B before hand pile, hand pile burn treatment:

1. L-4 All hardwood trees between one (1) inch and ten (10) inches D.B.H.O.B. shall be felled following logging as shown on Exhibit S as directed by the Authorized Officer.

- (4) SD-5 The Purchaser shall perform logging residue reduction and site preparation work on approximately one thousand twenty one and one half (1,021.5) acres of harvest area located in Cutting Unit Nos. 1-11A, 1-11B (cable portion only), 2-1, 2-1B, 2-2, 3-1, 3-3, 3-4A, 3-4B, 3-5, 3-8, 3-8A, 3-12, 3-12A, 3-18, 6-16, 7-5, 7-27, 7-28, 8-1, 8-7, 8-7A, 8-8, 8-36, 9-5, 9-5A, 9-5B, 9-5C, 9-13, 10-2, 10-2B, 10-4A, 10-4B, 10-5, 15-11B, 16-2, 18-7, 27-8, 27-34, 33-1, 33-18, 33-28, 35-4, 35-8, 31-9-35.1, 32-9-3.0, 32-9-16.1, 32-9-16.2, and landings for all units as shown on Exhibit S.

- (a) The required work shall consist of any treatment or combination of treatments listed in the table below, as determined by the Authorized Officer

OH HENRY TIMBER SALE

SPECIAL PROVISIONS

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

Treatment	Description	Cost/Acre
Lop and Scatter	0-12 tons/acre	\$42.00
Selective Slashing	Cost per acre	\$300.00
Hand Pile and Cover Hand Pile	0-25 piles/acre	\$325.00
Hand Pile Burn and Mop-up	0-25 piles/acre	\$42.00
Machine Pile and Cover Machine Pile	Cost per acre	\$375.00
Machine Pile Burn and Mop-up	0-20 piles/acre	\$28.00
Machine Pile Landings	Cost per hour	\$100.00
Cover and Burn Landing Piles	Cost per acre	\$56.00

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

Appraised Treatment	Acres	Cost/Acre	Total Cost Per Treatment
Lop and Scatter	283.75	\$42.00	\$11,917.50
Selective Slashing	13.00	\$300.00	\$3,900.00
Hand Pile and Cover Hand Pile	101	\$325.00	\$32,825.00
Hand Pile Burn and Mop-up	101	\$42.00	\$4,242.00
Machine Pile and Cover Machine Pile	236.25	\$375.00	\$88,593.75
Machine Pile Burn and Mop-up	228.25	\$28.00	\$6,391.00
Machine Pile Landings	96 hrs	\$100/hr	\$9,600.00
Cover and Burn Landing Piles	58.25	\$56.00	\$3,262.00
Total Appraised Cost			\$160,731.25

- (c) The Total Purchase Price set forth in Section 2 shall be adjusted in a unilateral modification executed by the Contracting Officer by the amount that the total cost of the site preparation treatments designated pursuant to

OH HENRY TIMBER SALE

SPECIAL PROVISIONS

Section 42(F)(4)(SD-5)(a) differs from one hundred sixty thousand seven hundred thirty one and 25/100 (\$160,731.25) dollars, as calculated by using the estimated acres determined by the Authorized Officer and the per acre costs listed in Section 42(F)(4)(SD-5)(a).

- (d) Lop and scatter shall be done in accordance with Section 42(F)(1)(a)(SD-1a), selective slashing shall be done in accordance with Section 42(F)(3)(SD-4), hand pile and hand pile burning will be done in accordance with Section 42(F)(1)(d)(SD-1c) and Section 42(F)(2)(SD-2)(a and b), machine pile and machine pile burning shall be done in accordance with Section 42(F)(1)(b)(SD-1b), Section 42(F)(1)(c)(SD-1c), and Section 42(F)(2)(SD-2)(c and d), and cover and burn landing piles will be in accordance with Section 42(F)(1)(e)(SD-1f) and Section 42(F)(2)(SD-2)(c and d).

(G) LOG EXPORTS

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

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

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

OH HENRY TIMBER SALE

SPECIAL PROVISIONS

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

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

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

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

OH HENRY TIMBER SALE

SPECIAL PROVISIONS

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

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

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

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

Oh Henry T.S. Seasonal Restriction Matrix ORM07-TS-17-02

	Unrestricted Period
	Restricted To Dry Condition
	Restricted To Dry Condition Waiver Required
	MAMU Restricted Period, No Operations
	MAMU Restricted Hours Period, Operations confined to the time period between 2 hours after sunrise to 2 hours before sunset
	NSO Restricted Period (May be waived if NSO protocol surveys determine owls are not nesting)
	NSO Restricted Period (May be extended if owls are nesting)
	MAMU Restricted Hours Period + NSO Restricted Period (May be extended if owls are nesting)

* Operations will be suspended if unacceptable damage to residual trees occur.

** In-stream work periods for culvert cleaning are June 15th- September 15th

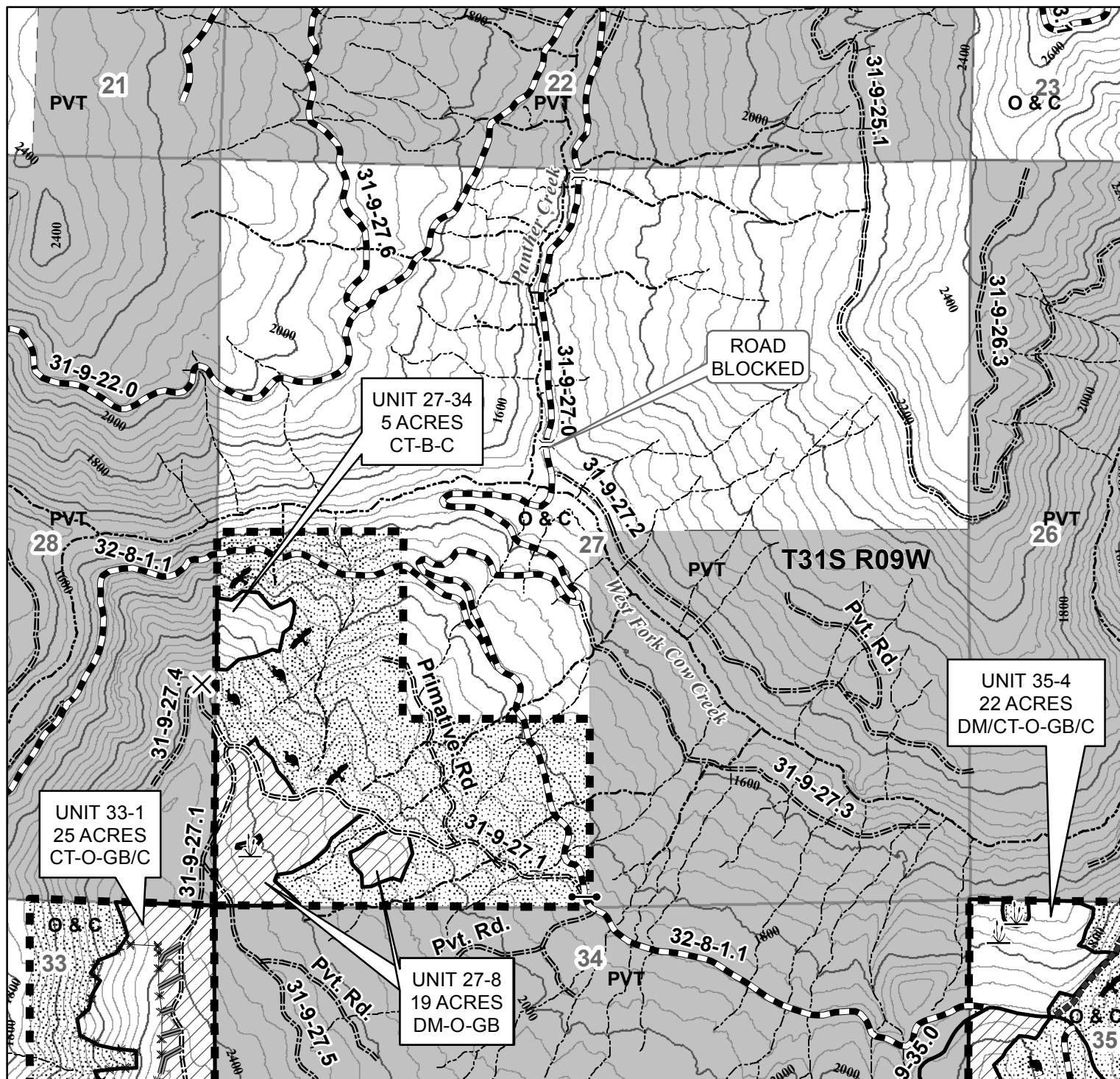
Dry Condition Haul = Loading, hauling, and certain non-emergency road maintenance activities (including blading of aggregate roads, rocking, and cross drain installation) would not occur on hydrologically-connected rocky or natural surface roads when water is flowing in the ditches or during any conditions that would result in any of the following: surface displacement such as rutting or ripples; continuous mud splash or tire slide; fines being pumped through road surfacing from the subgrade and resulting in a layer of surface sludge; road drainage causing a visible increase in stream turbidities; or any condition that would result in water being chronically routed into tire tracks or away from designed road drainage during precipitation events. Hauling on natural surface or hydrologically-connected rocky roads would not resume for a minimum of 48 hours following any storm event that results in ½ inch or more precipitation within a 24 hour period, and until road surface is sufficiently dry to prevent any of the above conditions from reoccurring.

Dry Condition Ground-based harvesting and Temporary Route work = Ground-based harvesting & yarding, temporary route work, and rehabilitation activities would not occur when soil moisture at a depth of 4-6 inches is wet enough to maintain form when compressed, or when soil moisture at the surface would readily displace, causing ripples and ruts along equipment tracks. These conditions are generally found when soil moisture at a depth of 4-10 inches is between 15-25% depending on soil type.

Sale Area	Activity	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
<u>Helicopter Yard</u> <u>Unit:</u> 1-5	Manual Felling and Bucking*	1	15	1	15	1	15	1	15	1	15	1	15
	Helicopter Yarding												
	Loading and Hauling												
	Landing Rehabilitation & Road Maintenance**												
<u>Helicopter & Cable Yard Unit:</u> 1-11B	Manual Felling and Bucking*												
	Helicopter Yarding												
	Cable Yarding*												
	Loading and Hauling												
	Temp. Route Construction, All Rehabilitation Activities & Road Maintenance**												

Sale Area	Activity	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
		1	15	1	15	1	15	1	15	1	15	1	15

Sale Area	Activity	Jan		Feb		Mar		Apr		May		Jun		Jul		Aug		Sep		Oct		Nov		Dec	
		1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	5	1	15	1	15	1	15	1	15
<u>Ground-based & Cable Yard Units w/temp. routes, w/out haul restrictions & w/MAMU restrictions: 8-1, 35-4</u>	Manual Felling and Bucking*																								
	Ground-based Harvesting & Yarding																								
	Cable Yarding*																								
	Loading and Hauling																								
<u>Ground-based & Cable Yard Unit w/temp. routes, w/haul & MAMU restrictions: 18-7</u>	Temp. Route Construction, All Rehabilitation Activities & Road Maintenance**																								
	Manual Felling and Bucking*																								
	Ground-based Harvesting & Yarding																								
	Cable Yarding*																								
<u>Ground-based Yard Unit w/temp. routes, w/MAMU restrictions: 33-28</u>	Loading and Hauling																								
	Temp. Route Construction, All Rehabilitation Activities & Road Maintenance**																								
	Manual Felling and Bucking*																								
	Ground-based Harvesting & Yarding																								
<u>Ground-based Yard Units w/haul & MAMU restrictions: 2-1, 27-8</u>	Loading and Hauling																								
	Manual Felling and Bucking*																								
	Ground-based Harvesting & Yarding																								
	All Rehabilitation Activities & Road Maintenance**																								
<u>Cable Yard Units w/NSQ, MAMU &</u>	Manual Felling and Bucking*																								
	Cable Yarding*																								
	Loading and Hauling																								



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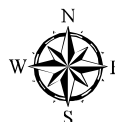
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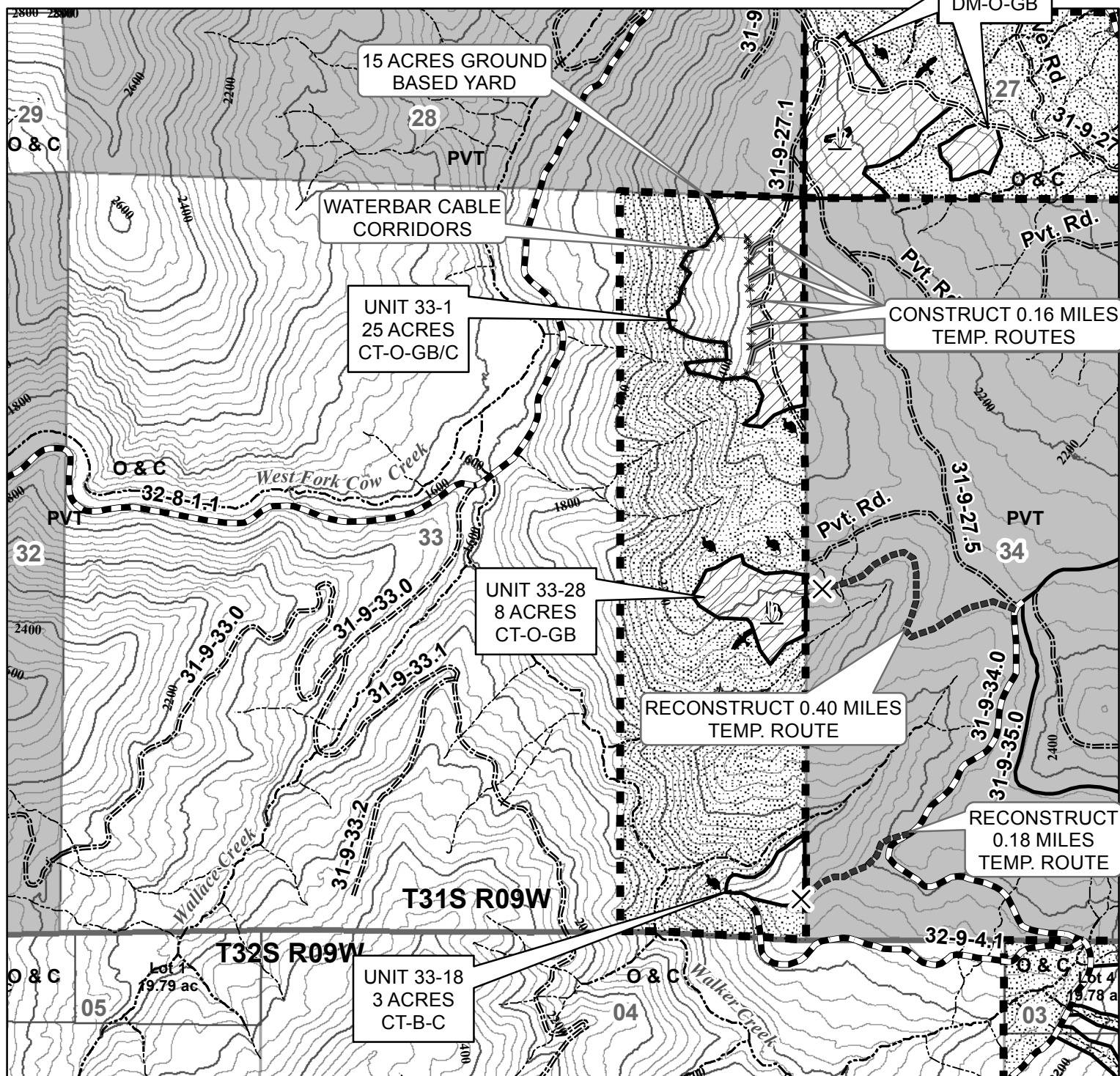
40 FOOT CONTOUR INTERVAL

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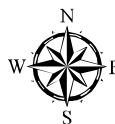
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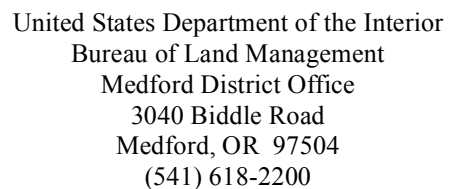
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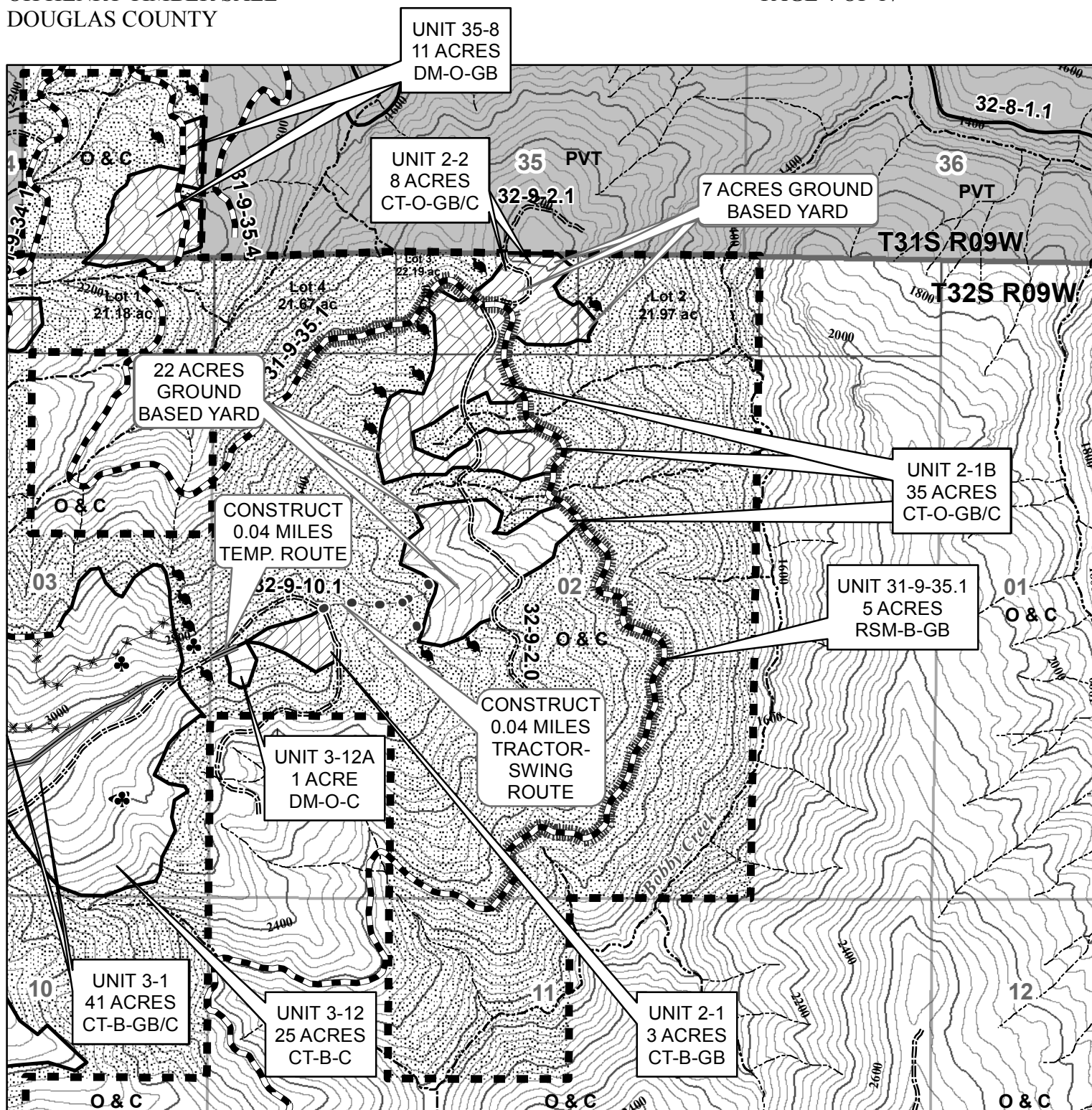
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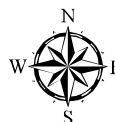
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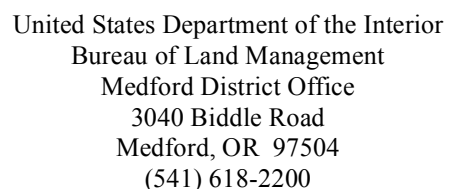
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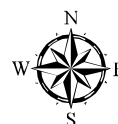
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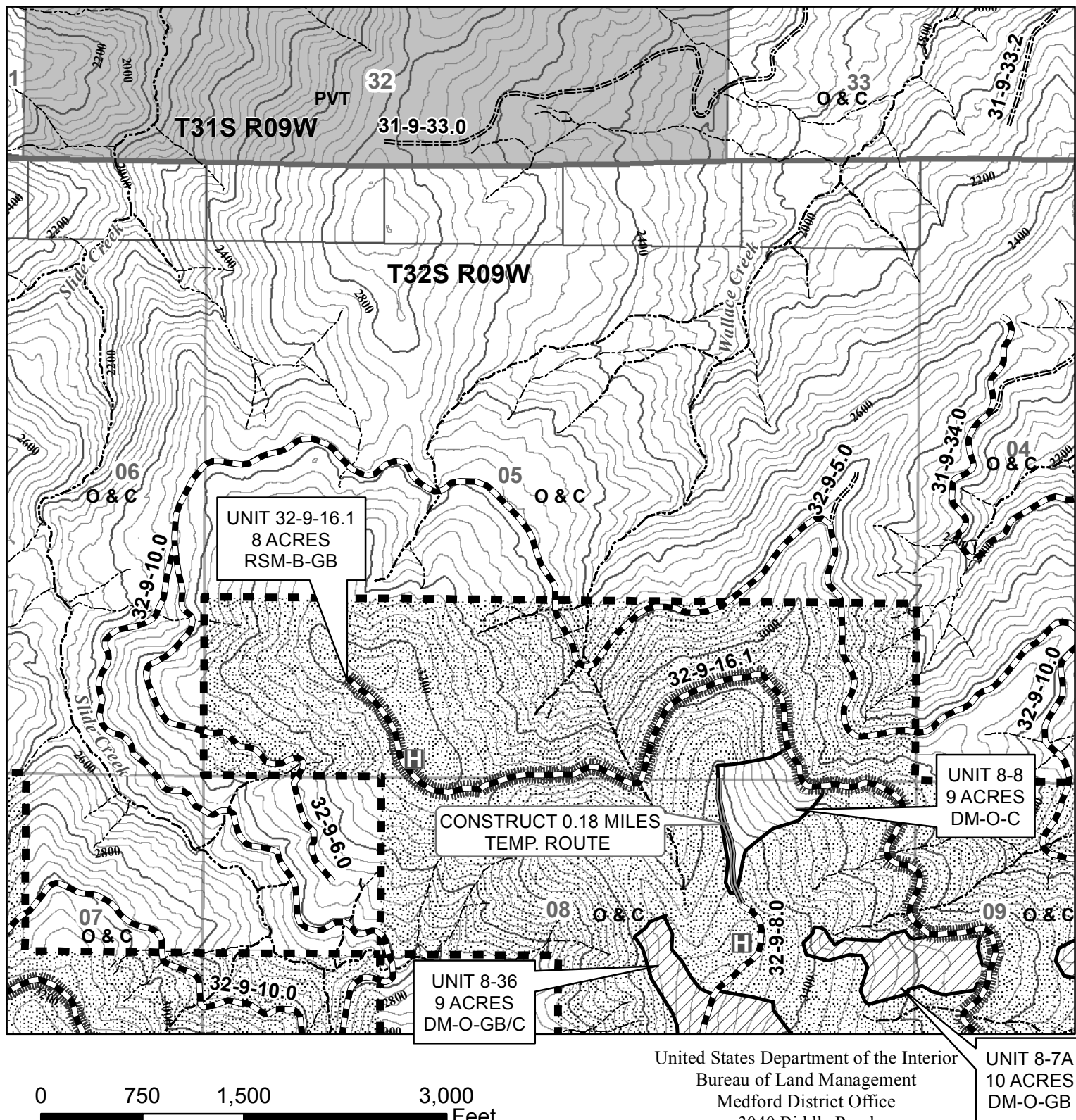
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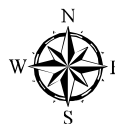
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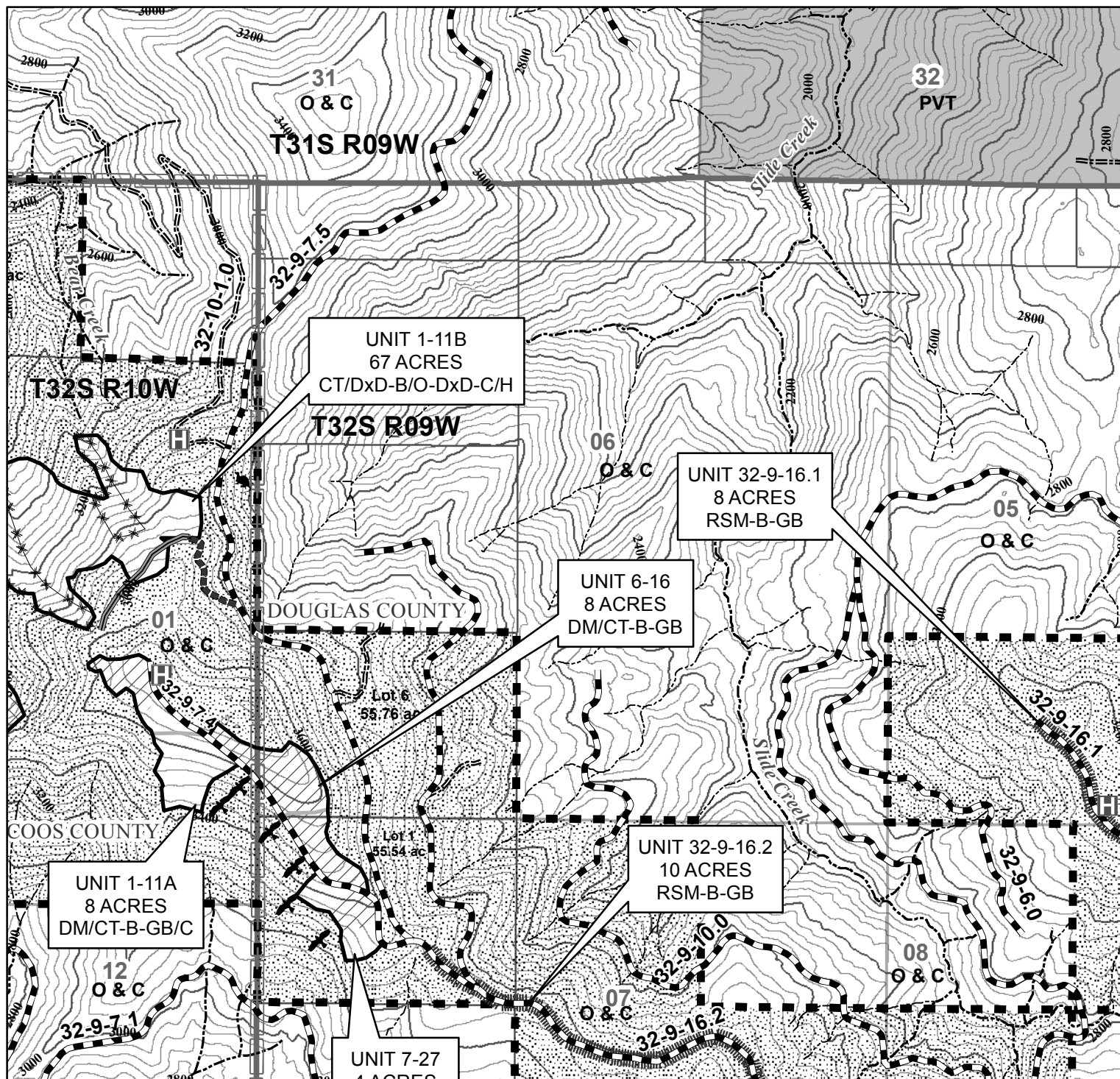




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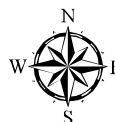
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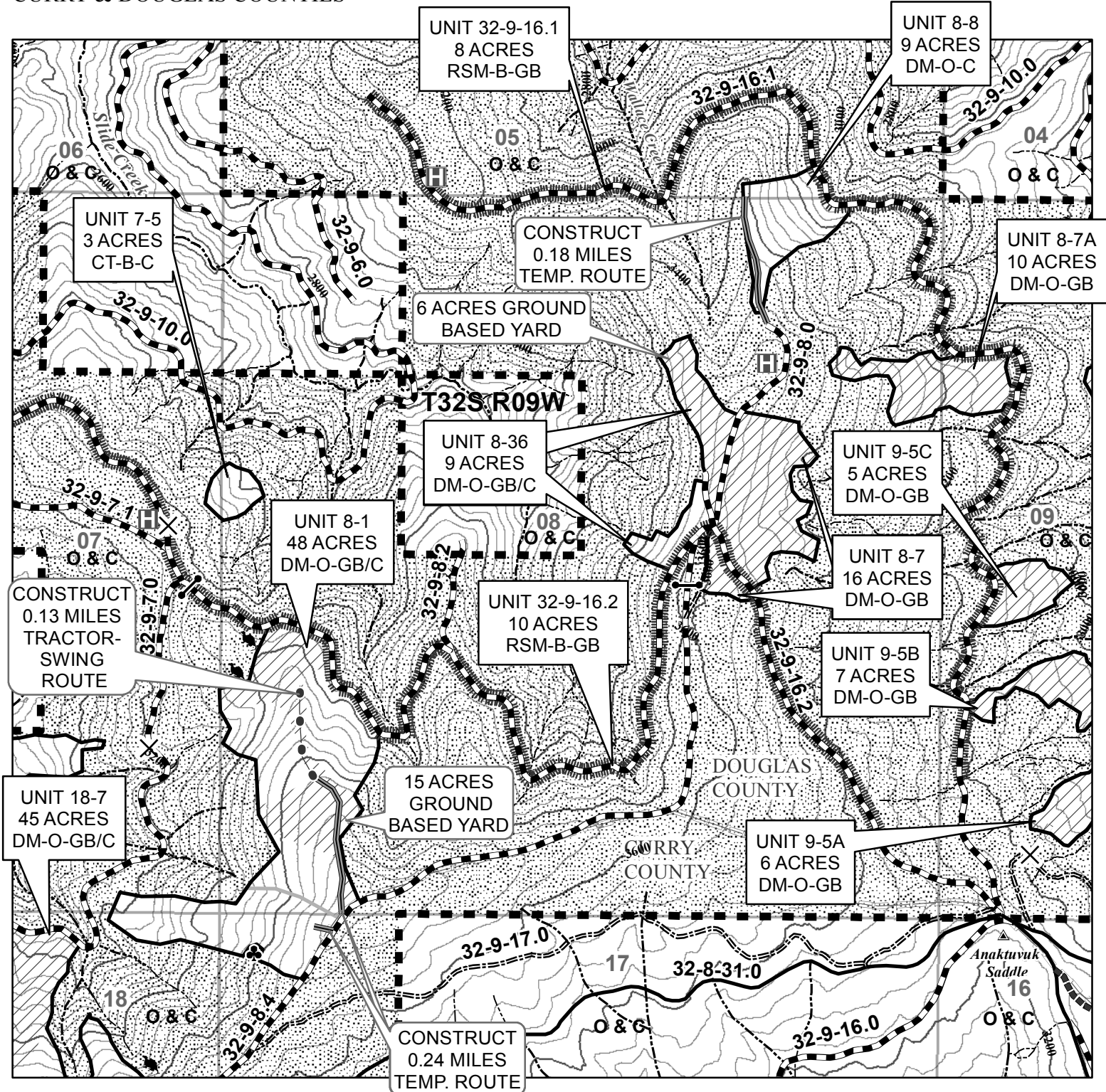
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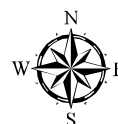
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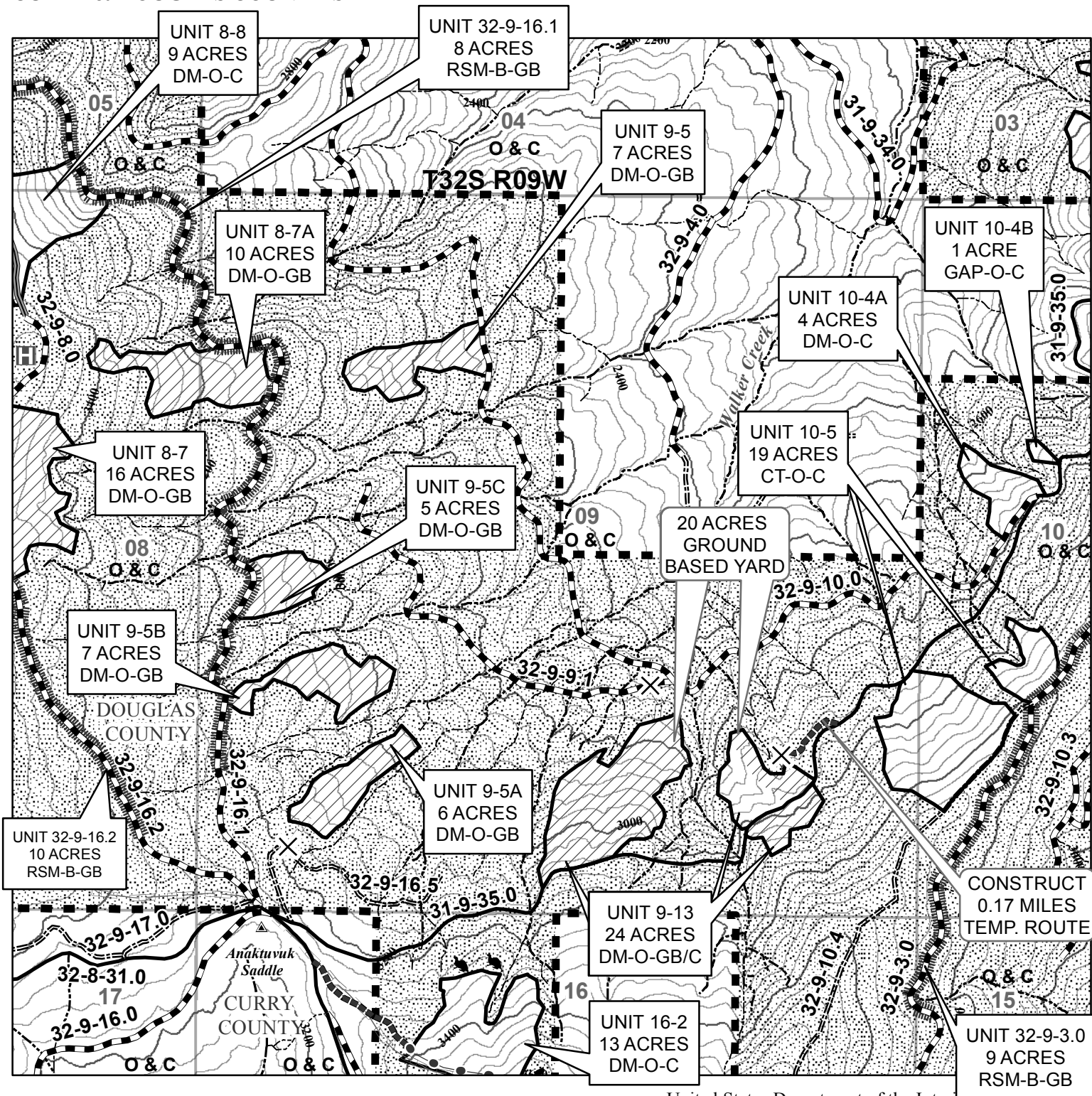
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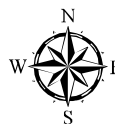
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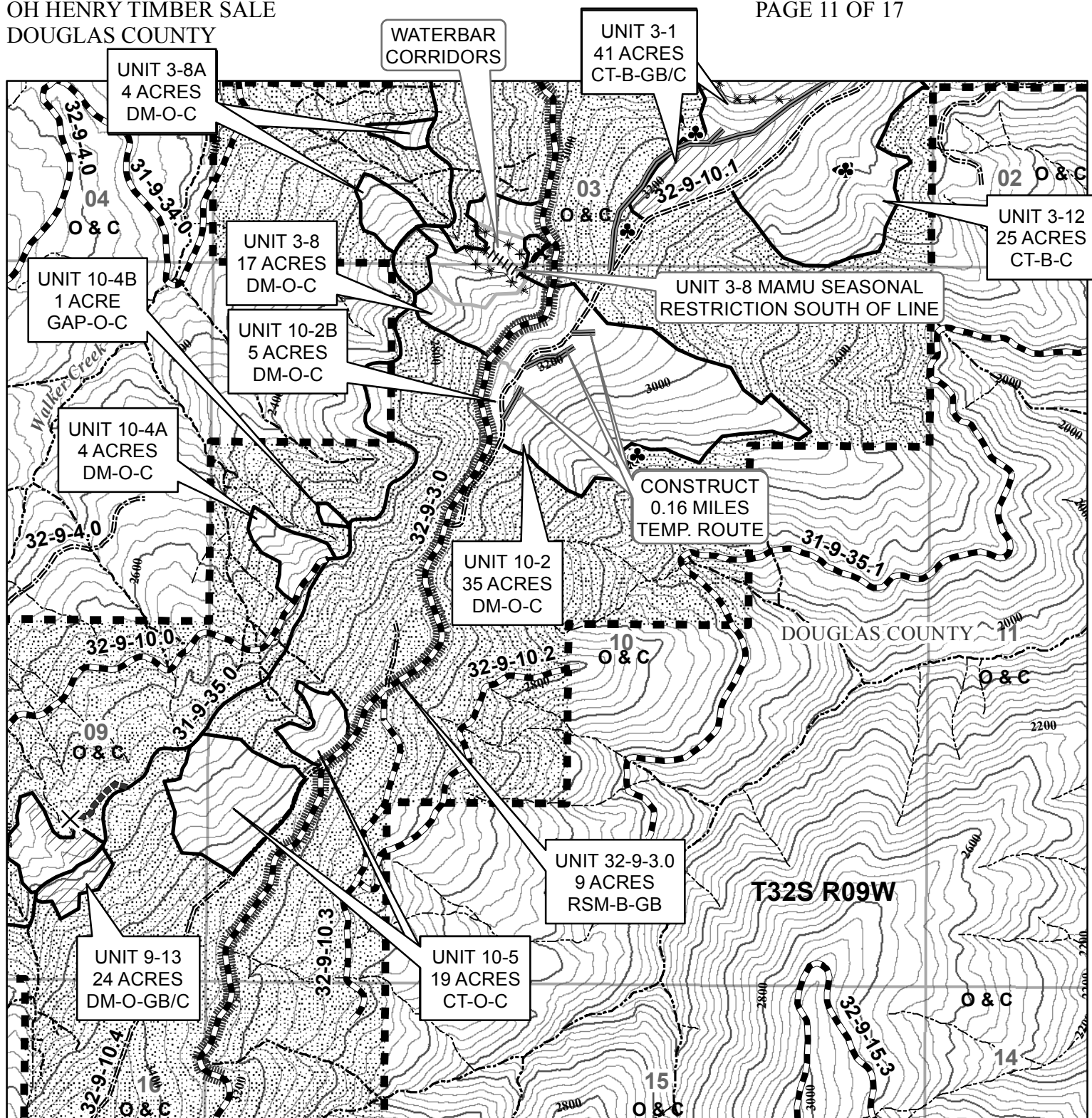
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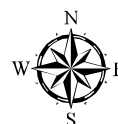
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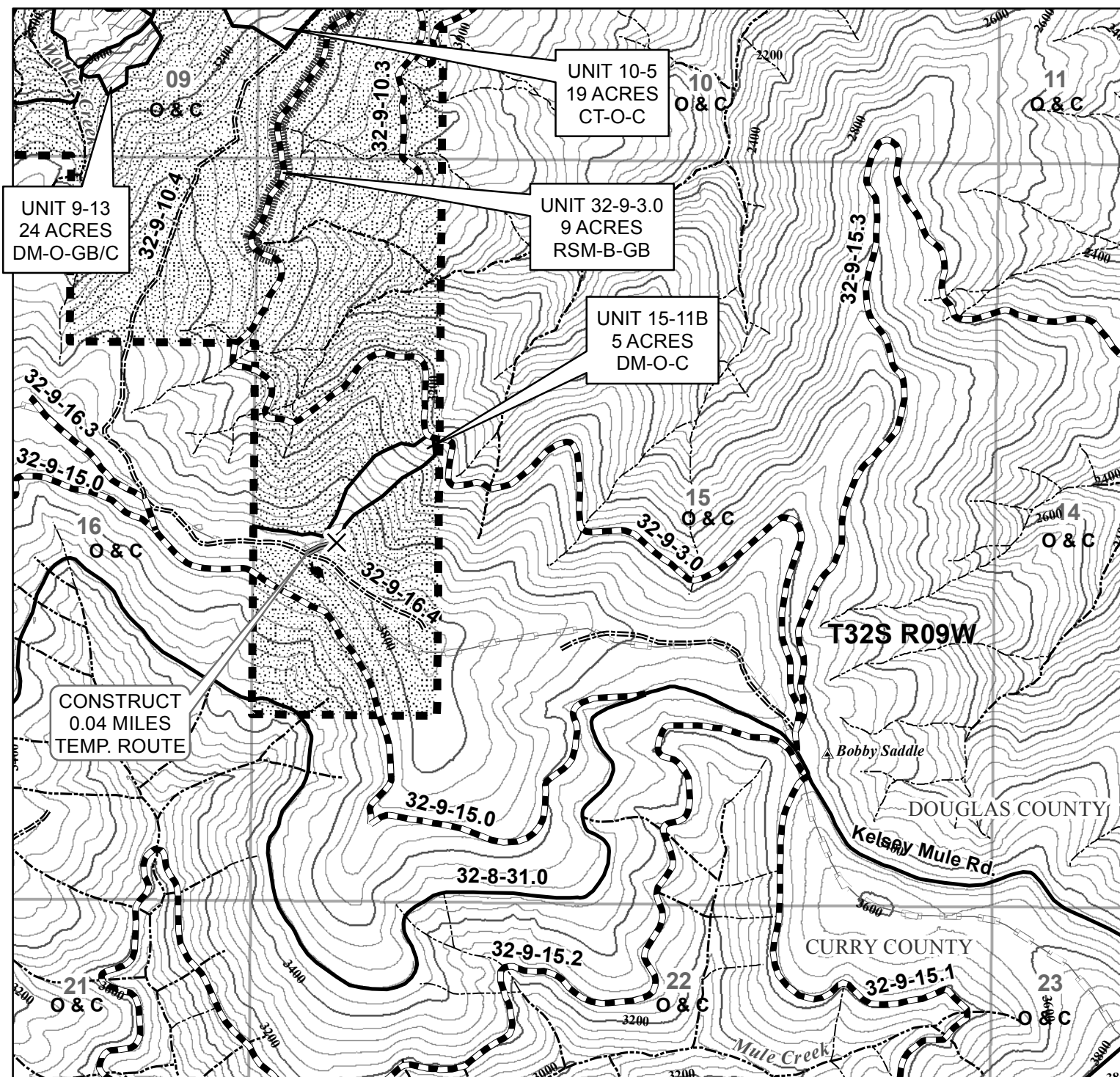
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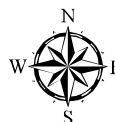
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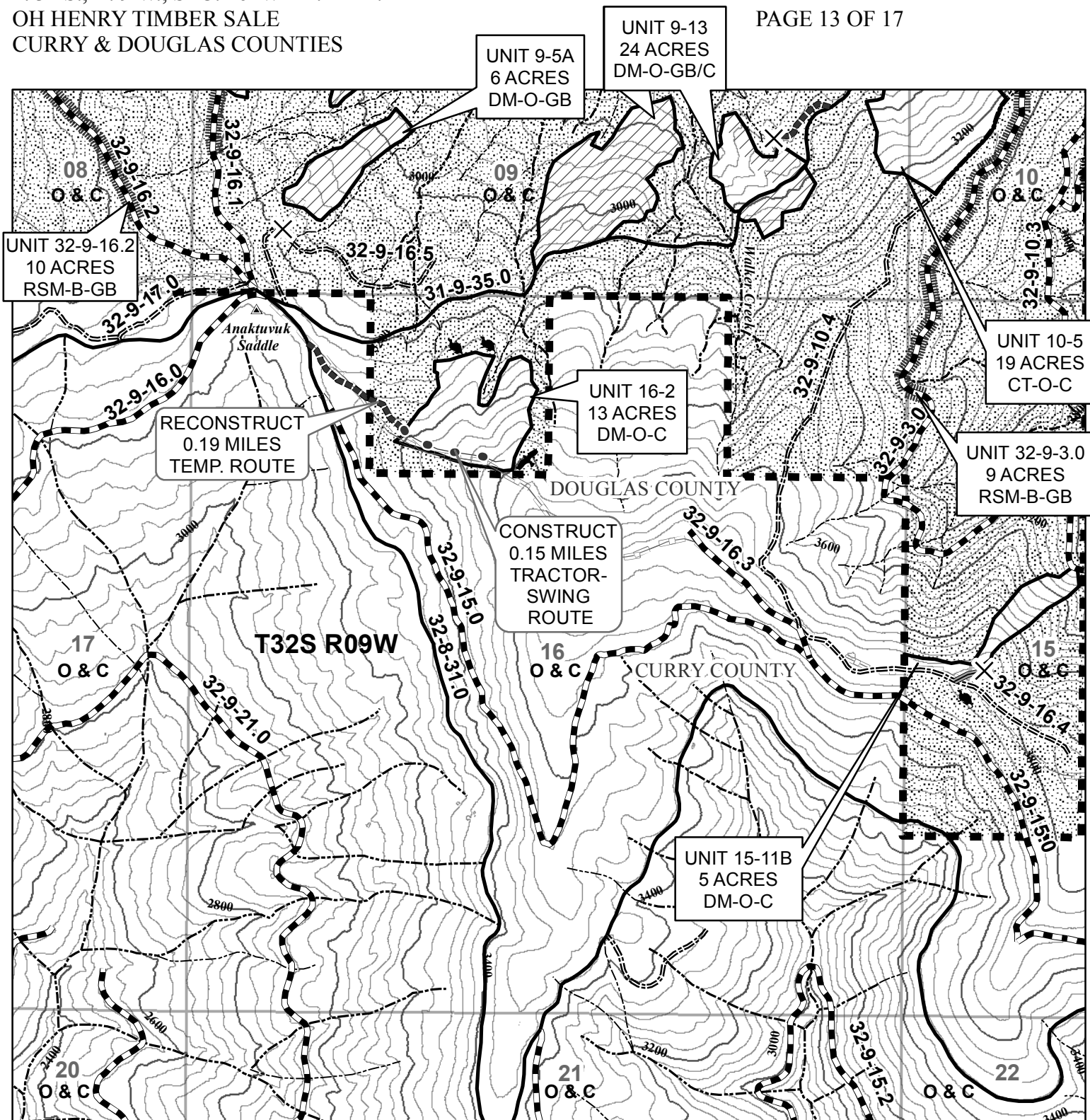
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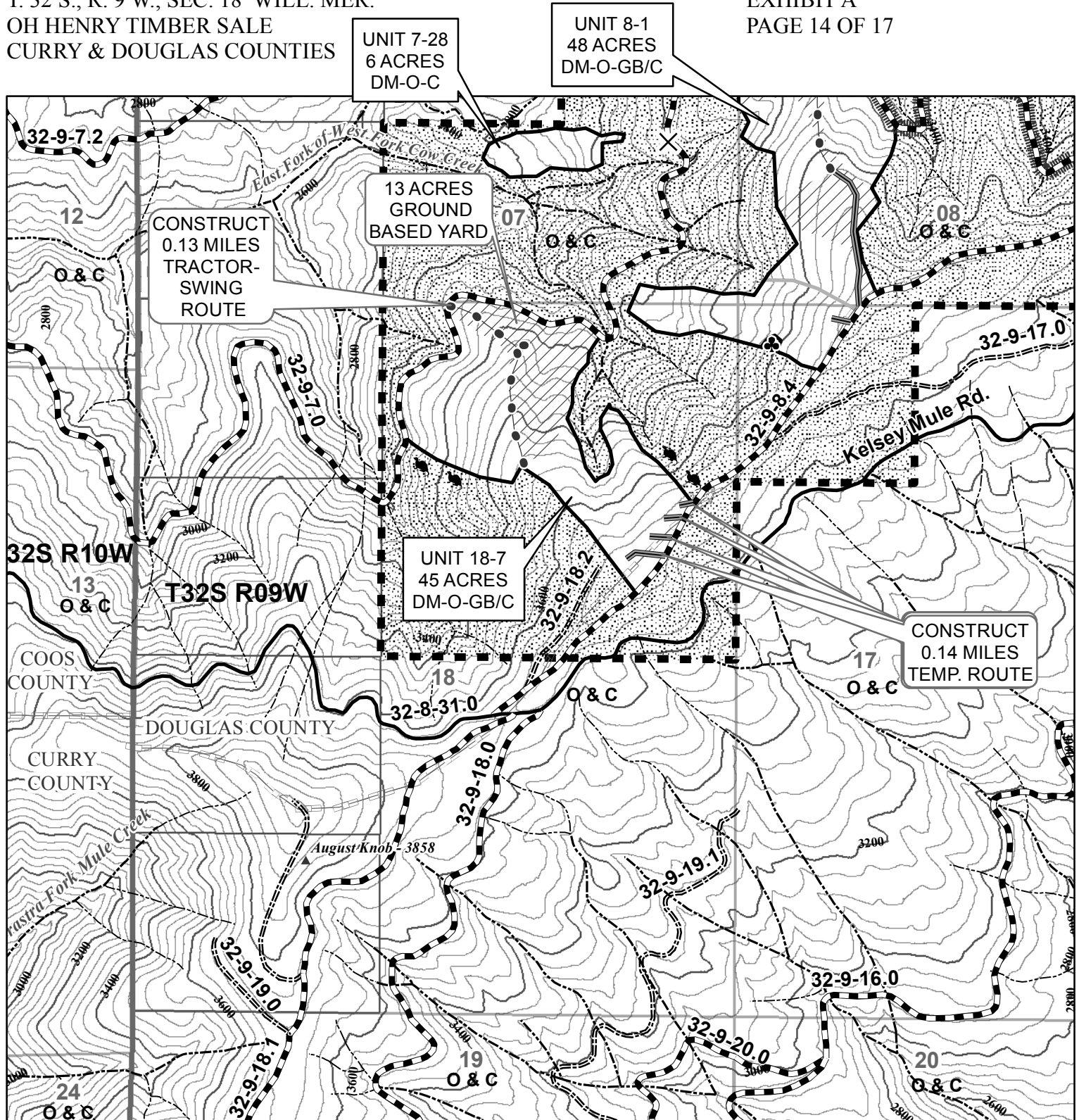
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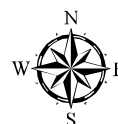
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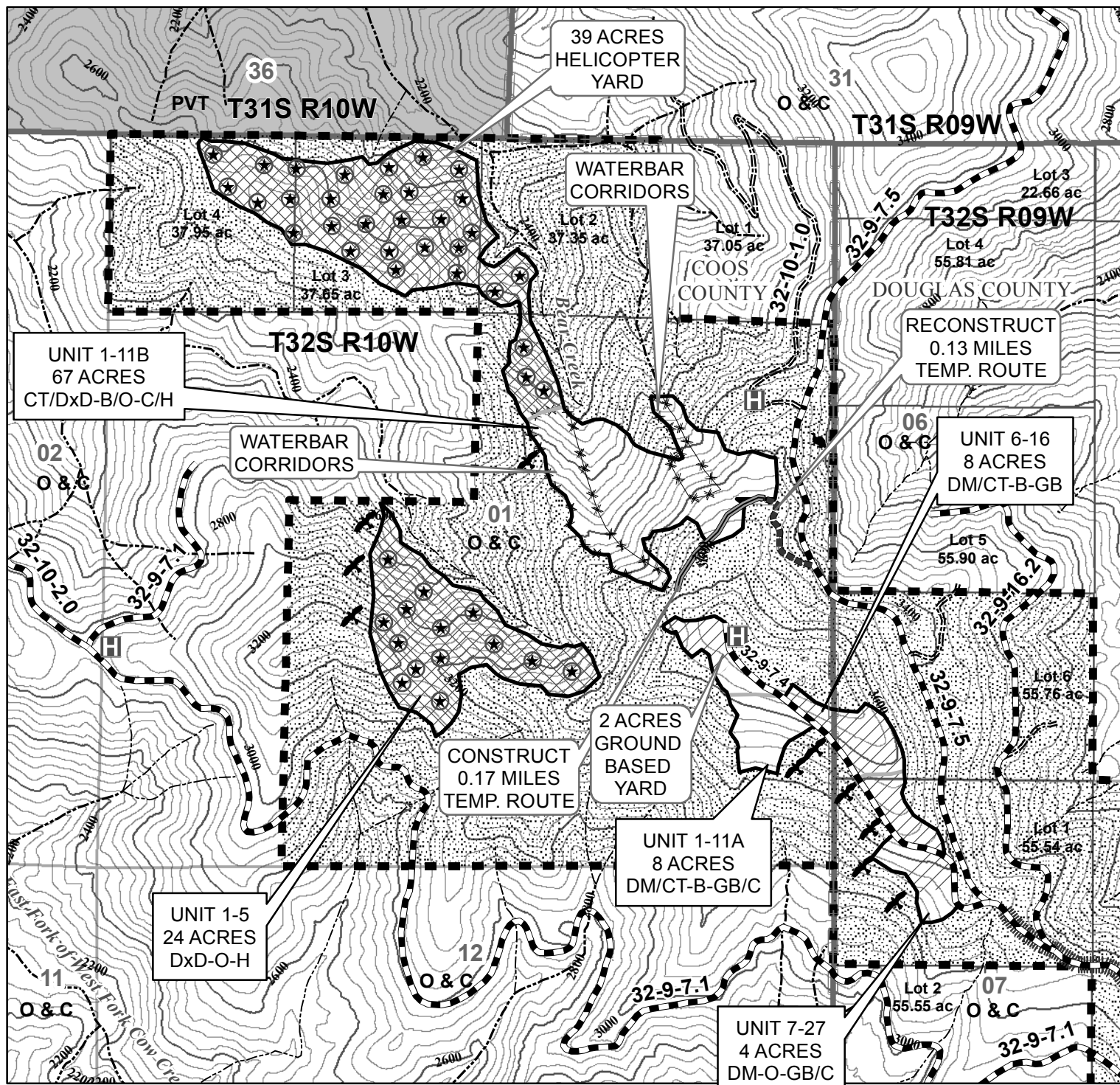
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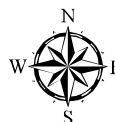
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LEGEND

UNIT	UNIT ACRES	PRESCRIPTION- PAINT COLOR- LOGGING SYSTEM
1-5	24	DxD-O/DxD-H
1-11A	8	DM/CT-B-GB/C
1-11B	67	CT/DxD-B/O/DxD-C/H
2-1	3	CT-B-GB
2-1B	35	CT-O-GB/C
2-2	8	CT-O-GB/C
3-1	41	CT-B-GB/C
3-3	13	CT-O-GB
3-4A	11	DM-O-GB
3-4B	5	DM-O-GB
3-5	26	DM-O-C
3-8	17	DM-O-C
3-8A	4	DM-O-C
3-12	25	CT-B-C
3-12A	1	DM-O-C
3-18	6	CT-B-C
6-16	8	DM/CT-B-GB
7-5	3	CT-B-C
7-27	4	DM-O-GB/C
7-28	6	DM-O-C
8-1	48	DM-O-GB/C
8-7	16	DM-O-GB
8-7A	10	DM-O-GB
8-8	9	DM-O-C
8-36	9	DM-O-GB/C
9-5	7	DM-O-GB
9-5A	6	DM-O-GB
9-5B	7	DM-O-GB
9-5C	5	DM-O-GB
9-13	24	DM-O-GB/C

UNIT	UNIT ACRES	PRESCRIPTION- PAINT COLOR- LOGGING SYSTEM
10-2	35	DM-O-C
10-2B	5	DM-O-C
10-4A	4	DM-O-C
10-4B	1	GAP-O-C
10-5	19	CT-O-C
15-11B	5	DM-O-C
16-2	13	DM-O-C
18-7	45	DM-O-GB/C
27-8	19	DM-O-GB
27-34	5	CT-B-C
33-1	25	CT-O-GB/C
33-18	3	CT-B-C
33-28	8	CT-O-GB
35-4	22	DM/CT-O-GB/C
35-8	11	DM-O-GB
31-9-35.1	5	RSM-B-GB
32-9-3.0	9	RSM-B-GB
32-9-16.1	8	RSM-B-GB
32-9-16.2	10	RSM-B-GB
TOTAL	708	

* BOUNDARIES OF HARVEST UNITS ARE
POSTED AND PAINTED IN ORANGE

DxD = DESIGNATION BY DESCRIPTION (SEE EXHIBIT E)

CT = COMMERCIAL THIN (60% CANOPY COVER)

DM = DENSITY MANAGEMENT (40% CANOPY COVER)

GAP = GAP, REMOVE ALL UN-MARKED TREES

RSM = ROADSIDE MANAGEMENT

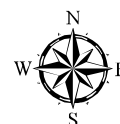
GB = GROUND BASE HARVEST & YARD

C = CABLE YARD

H = HELICOPTER YARD

B = BLUE MARK CUT TREE

O = ORANGE MARK LEAVE TREE



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

Contract No.: ORM07-TS-17-02
Sale Name: Oh Henry
Issuing Office: Medford District

EXHIBIT B
SCALE SALE

PURCHASE PRICE SCHEDULE AND MEASUREMENT SPECIFICATIONS

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

Schedule of Species, Measurement Units, and Prices		
Species	Measurement Unit	Price Per Measurement Unit
Merchantable logs - Douglas-fir	MBF	\$207.30
Sugar Pine	MBF	\$31.20
Western Hemlock	MBF	\$37.10
Incense Cedar	MBF	\$163.10
Utility logs	MBF	Not Applicable

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

Schedule of Minimum Material Specifications			
Species and Products	Length	Diameter (inside bark at small end)	Net Scale
All Species	8 feet	5 inches	33 1/3% of gross volume of any log segment or 10 bf.

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

IV. **Scaling**

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

upon in writing regarding sample design, number of log sorts, expansion of sample volumes for computation of Merchantable Timber volume, etc.

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

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

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

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

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

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

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

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

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

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

Net scale. The allowable variance is as follows:

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

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

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

G. Accountability

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

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

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

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

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

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

H. **Scaling Lost Products** - The value of lost loads shall be equal to the highest value load for the month in which the lost load is hauled regardless of where the highest value load is scaled. If no loads have been scaled in that month, value will be determined from the closest month in which loads were scaled.

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

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

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

Total Estimated Purchase Price And/Or Schedule of Volumes and Values for Merchantable Timber Not Yet Removed from Contract Area					
Cutting Area		Total Estimated Volume (MBF)		Total Estimated Purchase Price	
Cutting Area Number	Approximate Number of Acres	Volume per Acre	Total Volume	Value per Acre	Total Value
1-5	24	3.6	86	\$721.30	\$17,311.30
1-11A	8	9.8	78	\$1,999.90	\$15,999.20
1-11B	67	7.7	517	\$1,571.23	\$105,272.40
2-1	3	10.0	30	\$2,016.27	\$6,048.80
2-1B	35	9.9	345	\$2,014.21	\$70,497.30
2-2	8	9.8	78	\$1,999.90	\$15,999.20
3-1	41	9.9	404	\$2,013.60	\$82,557.80
3-3	13	9.8	128	\$2,014.92	\$26,194.00
3-4A	11	10.6	117	\$2,204.92	\$24,254.10
3-4B	5	10.6	53	\$2,197.38	\$10,986.90
3-5	26	10.7	278	\$2,209.97	\$57,459.20
3-8	17	10.6	181	\$2,207.14	\$37,521.30
3-8A	4	10.8	43	\$2,228.48	\$8,913.90
3-12	25	9.8	246	\$2,012.60	\$50,315.00

3-12A	1	11.0	11	\$2,280.30	\$2,280.30
3-18	6	9.8	59	\$2,010.08	\$12,060.50
3.0	9	7.4	67	\$1,538.32	\$13,844.90
6-16	8	9.8	78	\$1,999.90	\$15,999.20
7-5	3	10.0	30	\$2,016.27	\$6,048.80
7-27	4	10.8	43	\$2,228.48	\$8,913.90
7-28	6	10.7	64	\$2,211.20	\$13,267.20
8-1	48	17.4	835	\$3,552.97	\$170,542.50
8-7	16	10.7	171	\$2,215.52	\$35,448.30
8-7A	10	17.4	174	\$3,555.96	\$35,559.60
8-8	9	10.7	96	\$2,211.20	\$19,900.80
8-36	9	10.7	96	\$2,211.20	\$19,900.80
9-5	7	17.4	122	\$3,564.31	\$24,950.20
9-5A	6	17.5	105	\$3,571.02	\$21,426.10
9-5B	7	10.7	75	\$2,221.07	\$15,547.50
9-5C	5	10.6	53	\$2,197.38	\$10,986.90
9-13	24	10.7	257	\$2,212.75	\$53,105.90
10-2	35	17.4	608	\$3,557.33	\$124,506.60
10-2B	5	17.4	87	\$3,572.98	\$17,864.90
10-4A	4	17.3	69	\$3,533.38	\$14,133.50
10-4B	1	17.0	17	\$3,524.10	\$3,524.10
10-5	19	9.8	187	\$2,013.39	\$38,254.50
15-11B	5	10.6	53	\$2,197.38	\$10,986.90
16-2	13	17.3	225	\$3,548.61	\$46,131.90
16.1	8	10.5	84	\$2,176.65	\$17,413.20
16.2	10	11.7	117	\$2,425.41	\$24,254.10
18-7	45	17.4	782	\$3,557.03	\$160,066.20
27-8	19	10.7	204	\$2,216.79	\$42,119.00
27-34	5	9.8	49	\$1,997.50	\$9,987.50
33-1	25	9.8	246	\$2,012.60	\$50,315.00
33-18	3	10.0	30	\$2,016.27	\$6,048.80
33-28	8	9.8	78	\$1,999.90	\$15,999.20

35-4	22	10.7	236	\$2,216.03	\$48,752.60
35-8	11	10.6	117	\$2,204.92	\$24,254.10
35.1	5	8.2	41	\$1,699.86	\$8,499.30
Sale Totals	708	11.5	8151	\$2,361.90	\$1,672,225.20

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

Instructions:

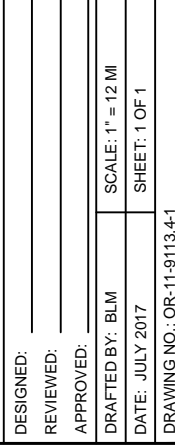
1. Designated individual fills out the heading and lines 1 through 5 (including FULL SIGNATURE in ink on line 5.)
2. Contractor or BLM scaler will fill out lines 6 and 7 (including FULL SIGNATURE in ink) when loads are released for scaling, otherwise the BLM and/or yard owner will be required to sign.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

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




Instructions:

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

EXHIBIT C1
SHEET 1 OF 1
OH HENRY TIMBER SALE
TRACT NO. ORM07-TS-2017.02



Legend

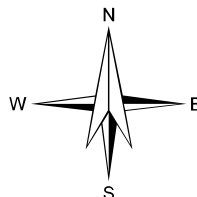
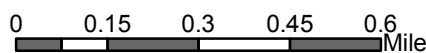
 Renovations
 Oh Henry Units
 Roadway Units

Ownership

PROPERTY_STATUS

☒ Bureau of Land Management

☐ Private

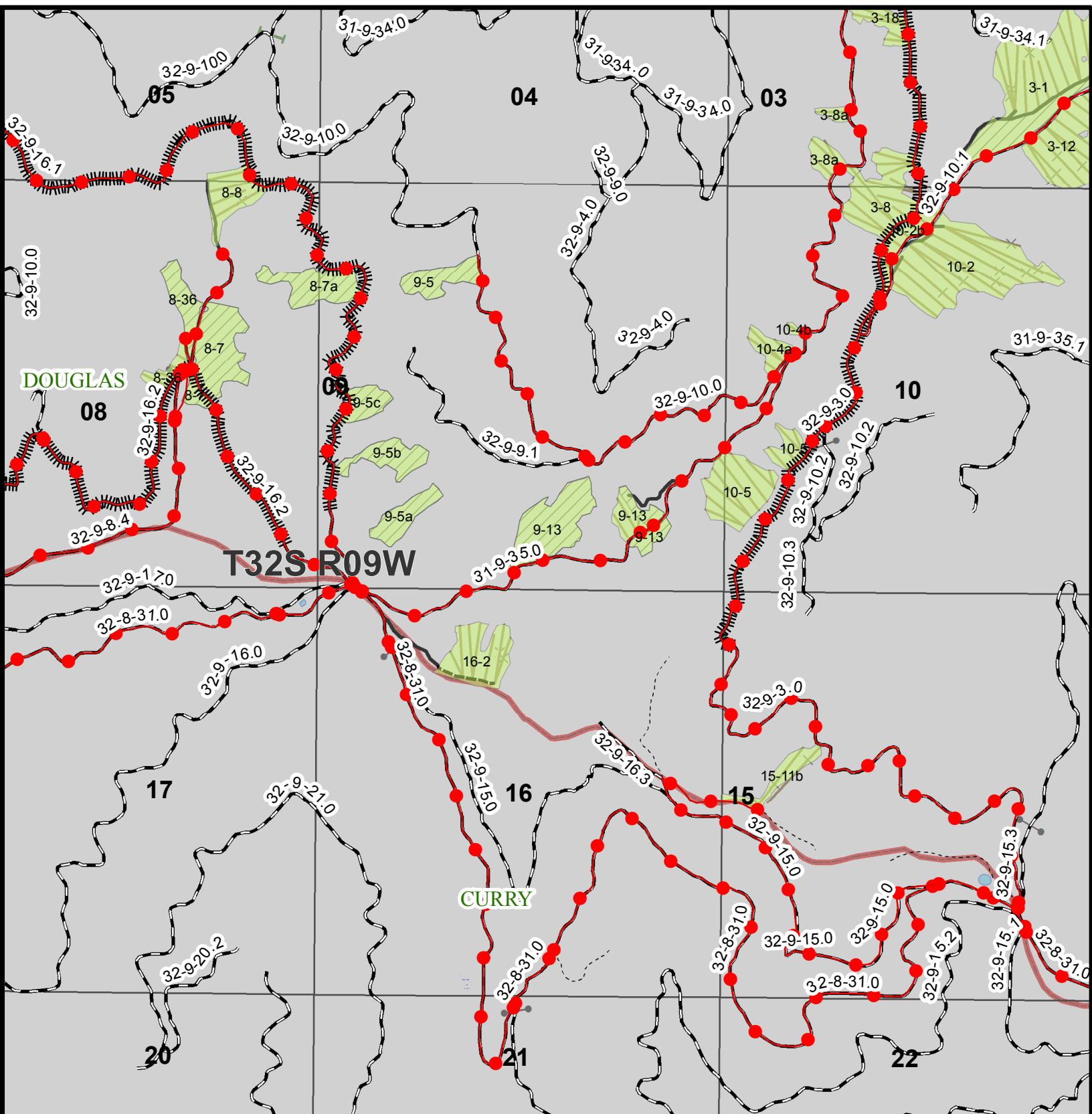


UNITED STATES DEPARTMENT OF INTERIOR
BUREAU OF LAND MANAGEMENT
MEDFORD DISTRICT - MEDFORD OREGON

OH HENRY TIMBER SALE ROAD RENOVATIONS

DESIGNED: _____
REVIEWED: _____
APPROVED: _____

DATE: JUNE 2017	SCALE: AS SHOWN
DRAFTED BY : C. SMITH	SHEET 1 OF 9

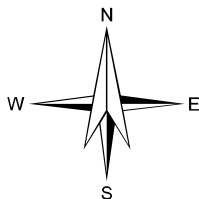
**Legend**

- Renovations
- Oh Henry Units
- Roadway Units

Ownership**PROPERTY STATUS**

- Bureau of Land Management
- Private

0 0.15 0.3 0.45 0.6 Mile



UNITED STATES DEPARTMENT OF INTERIOR
BUREAU OF LAND MANAGEMENT
MEDFORD DISTRICT - MEDFORD OREGON

OH HENRY TIMBER SALE ROAD RENOVATIONS

DESIGNED: _____

REVIEWED: _____

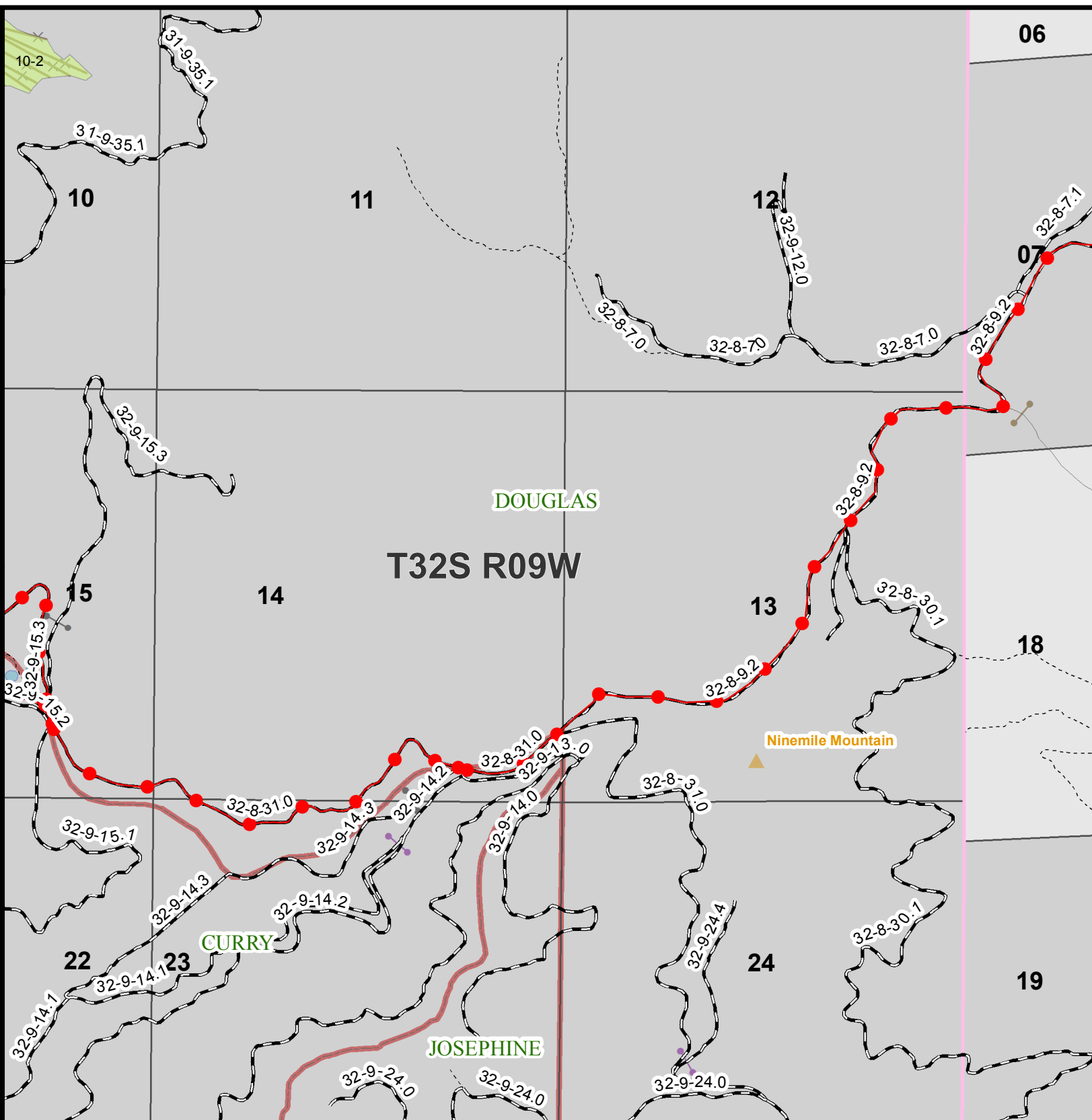
APPROVED: _____

DATE: JUNE 2017

SCALE: AS SHOWN

DRAFTED BY: C. SMITH

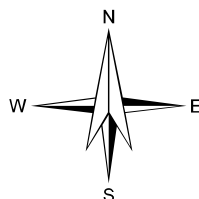
SHEET 2 OF 9

**Legend**

- Renovations
- Oh Henry Units
- Roadway Units

Ownership**PROPERTY STATUS**

- Bureau of Land Management
- Private






UNITED STATES DEPARTMENT OF INTERIOR
BUREAU OF LAND MANAGEMENT
MEDFORD DISTRICT - MEDFORD OREGON

OH HENRY TIMBER SALE ROAD RENOVATIONS

DESIGNED: _____
REVIEWED: _____
APPROVED: _____

DATE: JUNE 2017 SCALE: AS SHOWN
DRAFTED BY: C. SMITH SHEET 4 OF 9

Legend

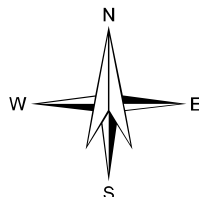
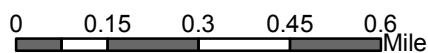
 Renovations
 Oh Henry Units
 Roadway Units

Ownership

PROPERTY_STATUS

☒ Bureau of Land Management

☐ Private

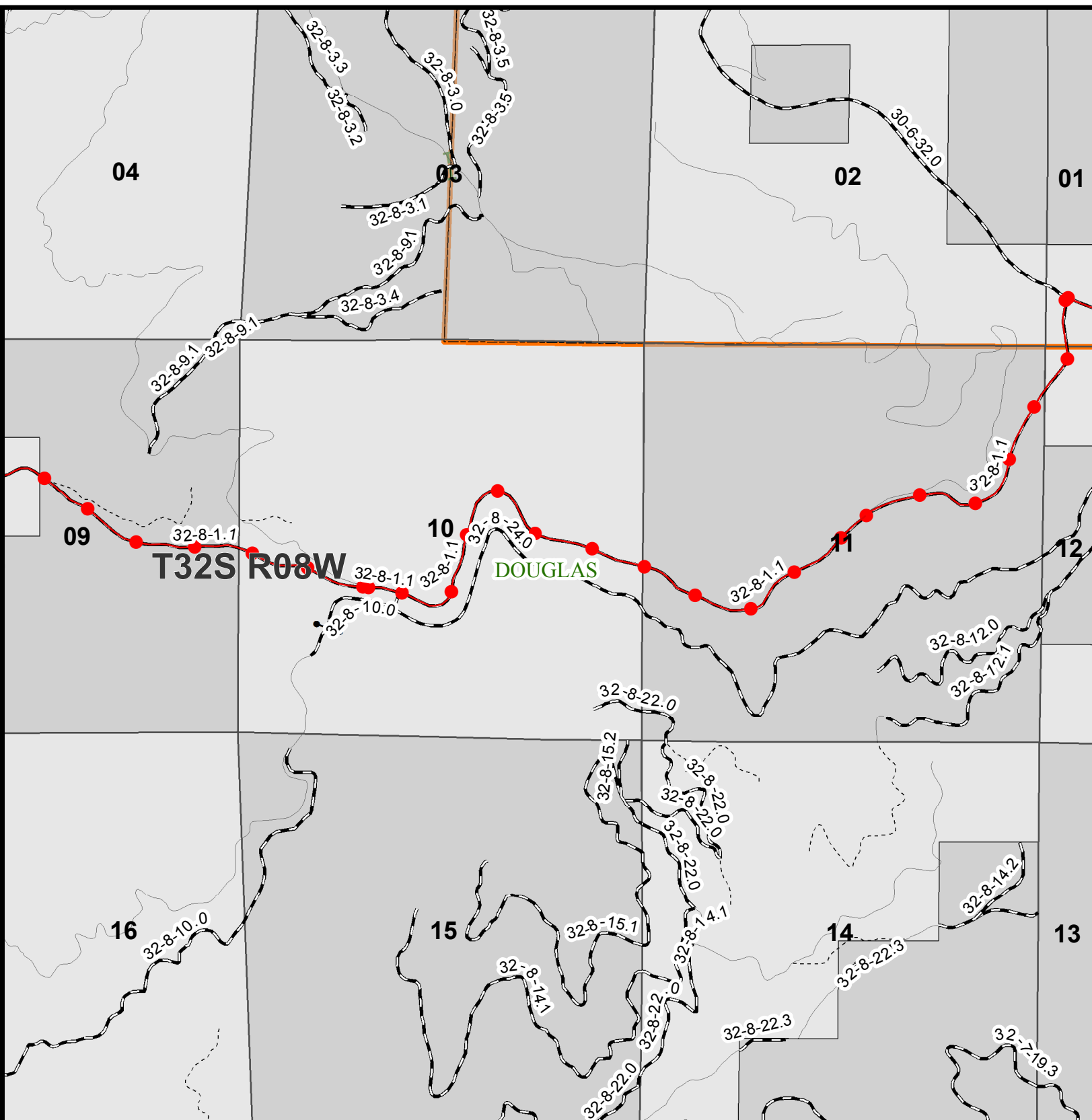


UNITED STATES DEPARTMENT OF INTERIOR
BUREAU OF LAND MANAGEMENT
MEDFORD DISTRICT - MEDFORD OREGON

OH HENRY TIMBER SALE ROAD RENOVATIONS

DESIGNED: _____
REVIEWED: _____
APPROVED: _____

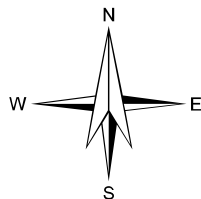
DATE: JUNE 2017	SCALE: AS SHOWN
DRAFTED BY : C. SMITH	SHEET 5 OF 9

**Legend**

- Renovations
- Oh Henry Units
- Roadway Units

Ownership**PROPERTY STATUS**

- Bureau of Land Management
- Private



0 0.15 0.3 0.45 0.6
Mile

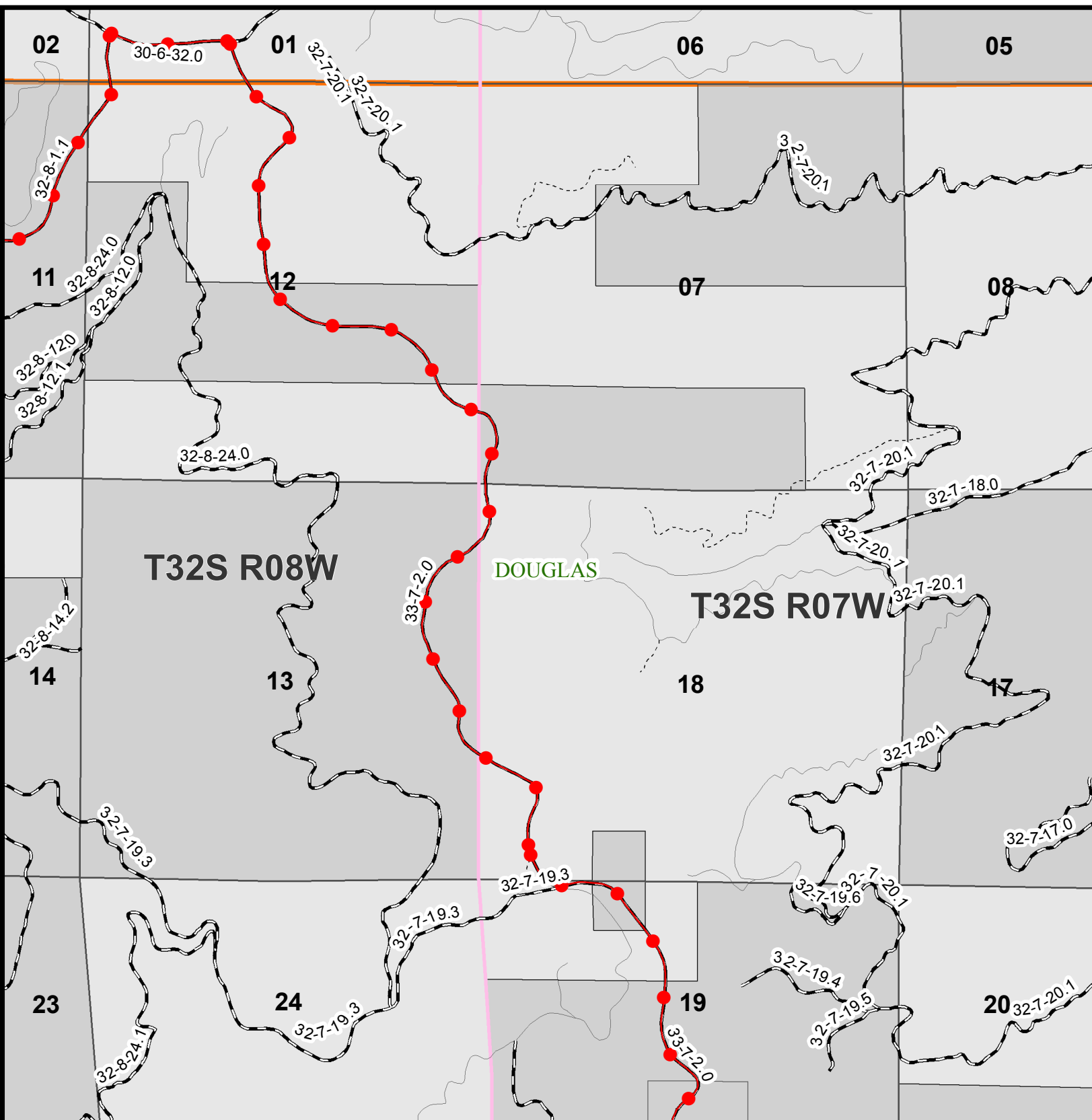
UNITED STATES DEPARTMENT OF INTERIOR
BUREAU OF LAND MANAGEMENT
MEDFORD DISTRICT - MEDFORD OREGON

OH HENRY TIMBER SALE ROAD RENOVATIONS

DESIGNED: _____
REVIEWED: _____
APPROVED: _____

DATE: JUNE 2017
DRAFTED BY: C. SMITH

SCALE: AS SHOWN
SHEET 6 OF 9

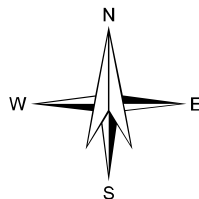
**Legend**

- Renovations
- Oh Henry Units
- Roadway Units

Ownership**PROPERTY STATUS**

- Bureau of Land Management
- Private

0 0.15 0.3 0.45 0.6 Mile

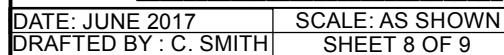


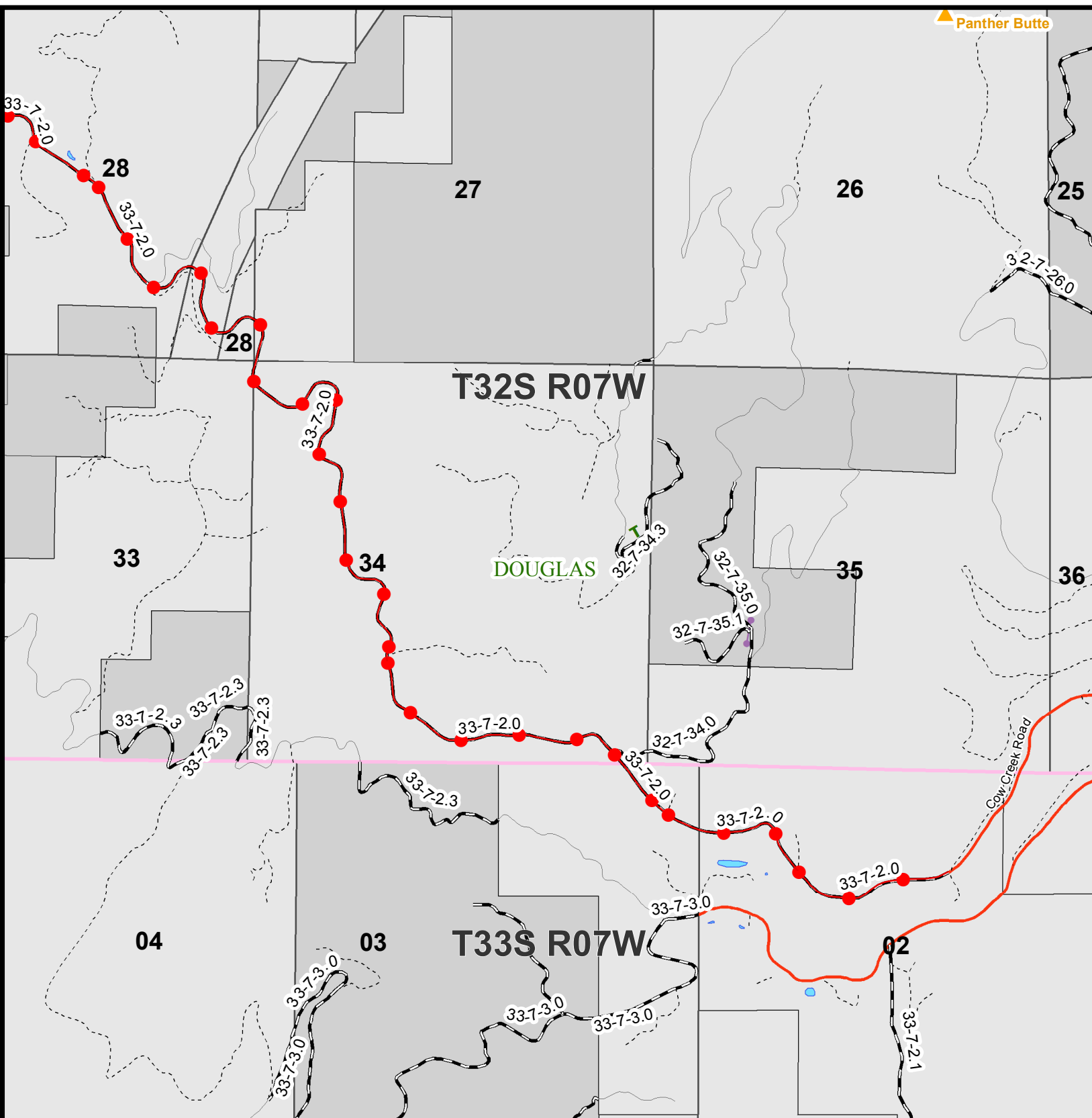
UNITED STATES DEPARTMENT OF INTERIOR
BUREAU OF LAND MANAGEMENT
MEDFORD DISTRICT - MEDFORD OREGON

OH HENRY TIMBER SALE ROAD RENOVATIONS

DESIGNED: _____
REVIEWED: _____
APPROVED: _____

DATE: JUNE 2017 SCALE: AS SHOWN
DRAFTED BY: C. SMITH SHEET 7 OF 9

EXHIBIT C-2

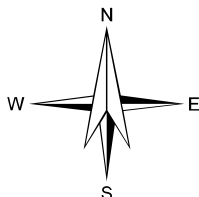
**Legend**

- Renovations
- Oh Henry Units
- Roadway Units

Ownership**PROPERTY STATUS**

- Bureau of Land Management
- Private

0 0.15 0.3 0.45 0.6
Mile



UNITED STATES DEPARTMENT OF INTERIOR
BUREAU OF LAND MANAGEMENT
MEDFORD DISTRICT - MEDFORD OREGON

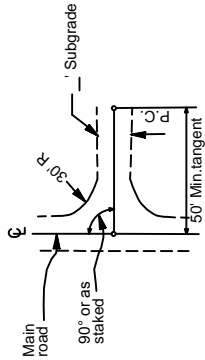
OH HENRY TIMBER SALE ROAD RENOVATIONS

DESIGNED: _____
REVIEWED: _____
APPROVED: _____

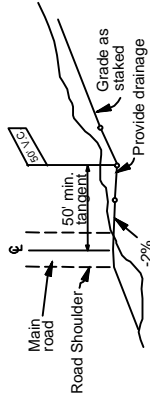
DATE: JUNE 2017
DRAFTED BY: C. SMITH

SCALE: AS SHOWN
SHEET 9 OF 9

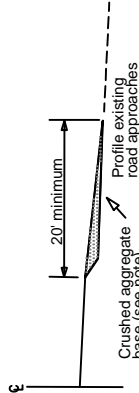
TYPICAL ROAD APPROACHES



PLAN



PROFILE



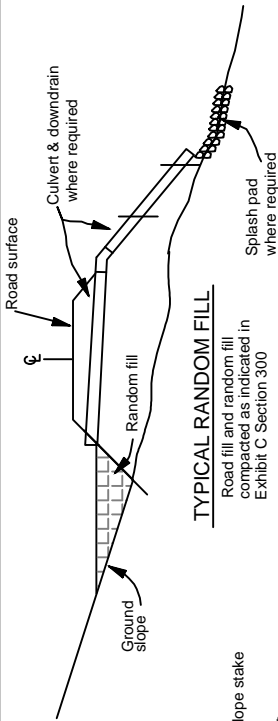
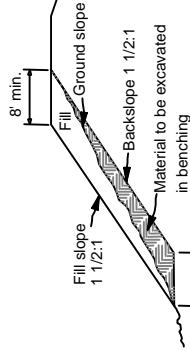
TYPICAL SURFACING SECTION

NOTES:

1. The profile of the existing approach roads shall be tapered to meet the shoulder line of the main roadway and shall receive the same wearing surface.
2. The crushed aggregate base shall be of the same gradation as used in the adjacent roadbed.
3. Approaches shall be finished with the same treatment as shown for the adjacent roadbed.

SPECIAL COMPACTION

TYPICAL BENCHING SECTION

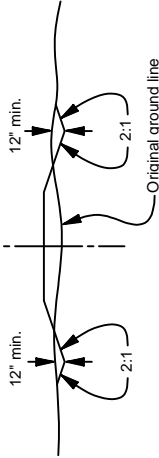


TYPICAL RANDOM FILL

Road fill and random fill compacted as indicated in Exhibit C Section 300

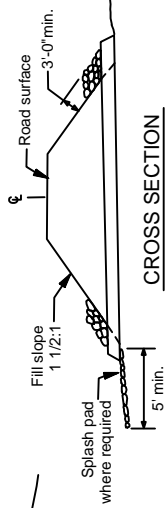


CUT SLOPE ROUNDING

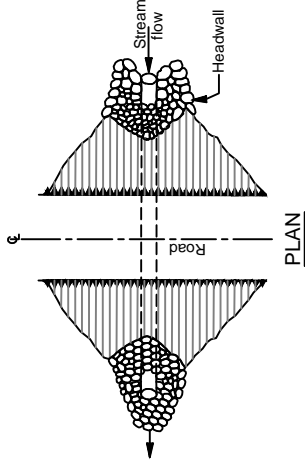


TYPICAL ROAD SECTION FOR TURNPIKE CONSTRUCTION

RIPRAP AT CULVERTS

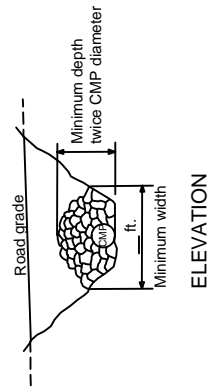


CROSS SECTION

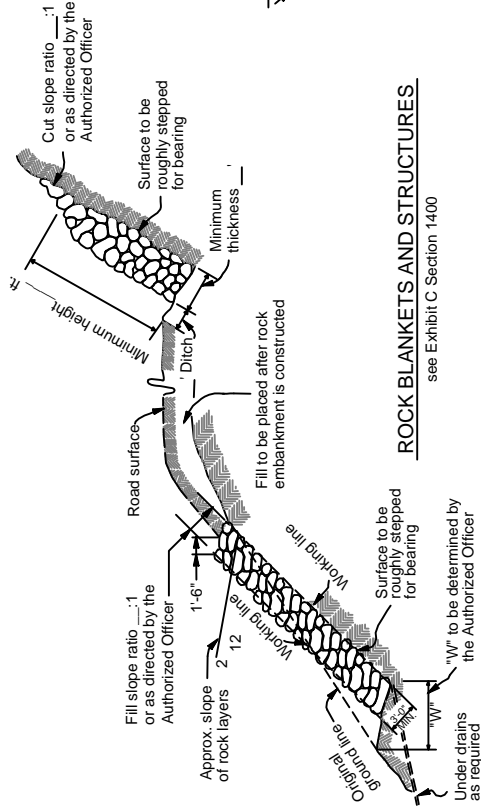


PLAN

- NOTES: RIPRAP AT CULVERTS
1. Riprap shall be placed in such a manner that it will not damage the culvert.
 2. Trenching will be done as required by the Authorized Officer.
 3. Minimum depth of splash pads shall be 1FT.
 4. Minimum quantity shall be 1CY per culvert.
 5. Riprap shall be placed before October 1st of the year the culvert is installed.

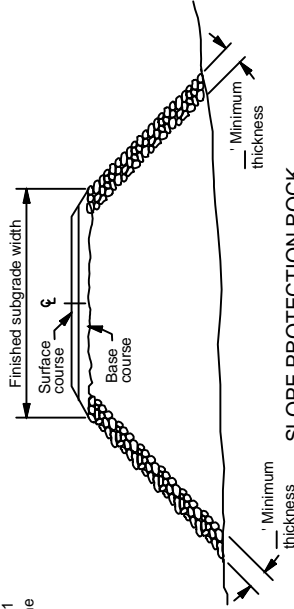


ELEVATION



ROCK BLANKETS AND STRUCTURES

see Exhibit C Section 1400



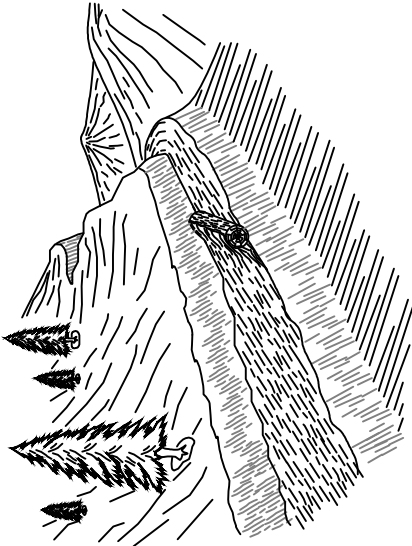
SLOPE PROTECTION ROCK

see Exhibit C Section 1400

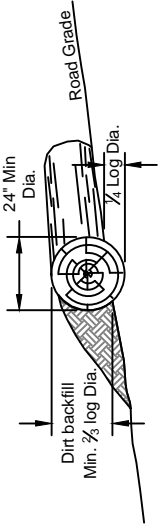
ALWAYS
THINK
SAFETY

EXHIBIT C5
SHEET 1 OF 1

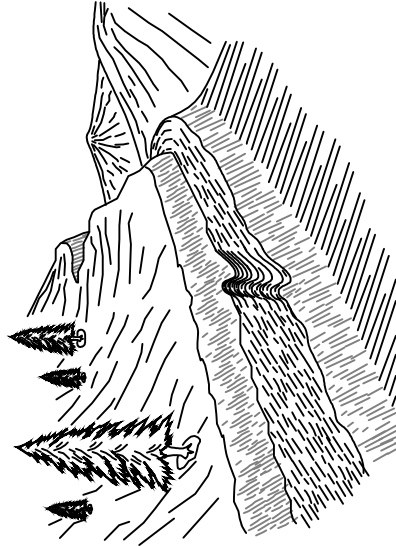
REV. NO.	DESCRIPTION	DATE	APPROV.
UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT MEDFORD DISTRICT - MEDFORD, OREGON			
OH HENRY TIMBER SALE TYPICAL ROAD DATA			
DESIGNED:			
REVIEWED:			
APPROVED:			
DRAFTED BY: BLM		SCALE: NONE	
DATE: JULY 2017			SHEET: 1 OF 1
DRAWING NO.: OR-11-9113.4-4			



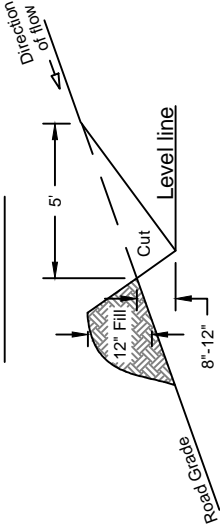
LOG BARRICADE



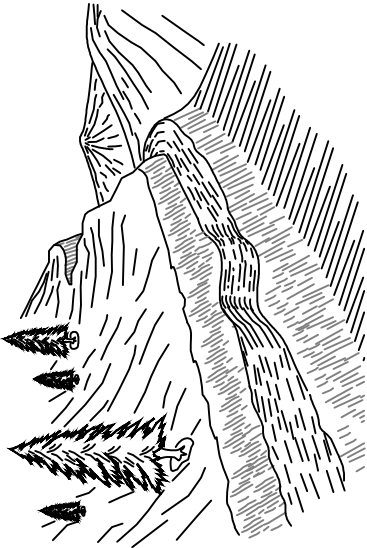
1. Log barricade shall be constructed as shown above.
2. Exact location will be flagged by the authorized officer prior to construction.
3. All barricades shall be skewed 30 degrees.
4. The length shall be sufficient to extend from the cut bank to the fill slope.
5. The minimum small end diameter of the log barricade shall be 24".



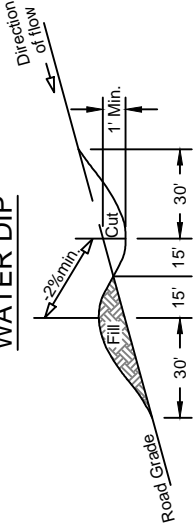
WATER BAR



1. Water bars shall be constructed as shown above.
2. Exact location will be flagged by the Authorized Officer prior to construction.
3. All water bars shall be skewed 30 degrees.
4. Upon completion of skidding logs, for the logging season, each skid road will have cross drainage constructed as shown above.
5. Prior to _____, each fire trail will have cross drainage constructed as shown above.

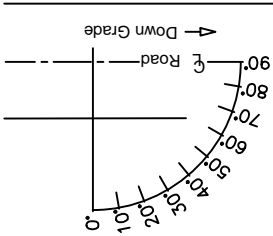


WATER DIP



1. Water dips shall be constructed as shown above.
2. Exact location will be flagged by the Authorized Officer prior to construction.
3. All water dips shall be skewed 30 degrees.
4. The length shall be sufficient to extend from the cut bank to the fill slope and be readily crossed by passenger type vehicles.
5. Rock outlet of water dip on fill slope. Rock will be placed from outlet to natural ground a minimum of 6 LF wide by 10 LF long by 1 FT depth.

SKEW DIAGRAM



BARRICADE LOCATION

ROAD NUMBER	M.P. / STA.
TEMP ROUTE 1	0.01
TEMP ROUTE 2	0.01
TEMP ROUTE 3	0.01 & 0.12
TEMP ROUTE 4	0.01
TEMP ROUTE 5	0.01
TEMP ROUTE 6	0.01
TEMP ROUTE 7	0.01
TEMP ROUTE 8	0.01

WATER DIP/BAR SPACING*

ROAD GRADE	LOAM OR CLAY LOAM	DECOMPOSED GRANITE
%	FEET	FEET
4-6	400	300
7-9	300**	200**
10-14	200	150
15-20	150	90
21-40	90	50
41-60	50	25

* Distances are maximum.
** On grades in excess of 10%, construct water bars.

ALWAYS
THINK
SAFETY

REV. NO.	DESCRIPTION	DATE	APPROV.
UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT MEDFORD DISTRICT - MEDFORD, OREGON			
OH HENRY TIMBER SALE DRAINAGE & EROSION CONTROL DETAILS			
DESIGNED: _____			
REVIEWED: _____			
APPROVED: _____			
DRAFTED BY: BLM		SCALE: NONE	
DATE: JULY 2017		SHEET: 1 OF 1	
DRAWING NO.: OR-11-9113.4-4			

NOTES

- 1) THE WATER DIP INVERT SHALL BE SMOOTH AND FREE DRAINING.
- 2) THE MINIMUM DIFFERENCE IN ELEVATION BETWEEN THE SAG AND THE CREST OF THE WATER DIP ALONG THE OUTSLOPE HINGE POINT IS 1.0 FEET.
- 3) THE MINIMUM DIFFERENCE IN ELEVATION BETWEEN THE SAG AND THE CREST OF THE WATER DIP ALONG THE FILLSLOPE SHOULDER IS 1.5 FEET.
- 4) SKEW DIP MINIMUM 15-30 DEGREES FROM PERPENDICULAR TO CENTERLINE.
- 5) EXCAVATED MATERIAL SHALL BE UTILIZED IN CONSTRUCTION OF WATER DIP. SIDECASTING IS NOT PERMITTED.
- 6) PIT RUN ROCK MATERIAL SHALL BE PLACED ON FILL SLOPE AND SUBGRADE OF ARMORED WATERDIP.
- 7) SEE ROAD RENOVATION WORKLIST FOR WATER DIPS TO BE ARMORED.
- 8) EACH DIP SHALL BE REINFORCED WITH 40 CUBIC YARDS OF 3" MINUS ROCK, ON ROADWAY AND PIT RUN AT OUTFALL.

LEGEND



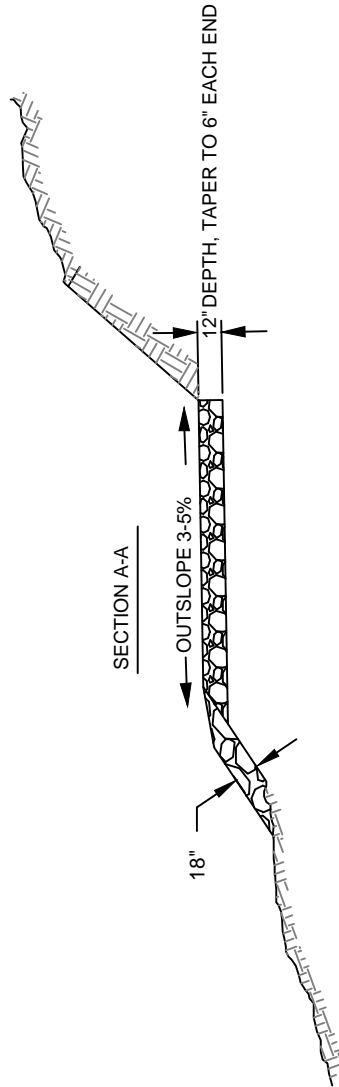
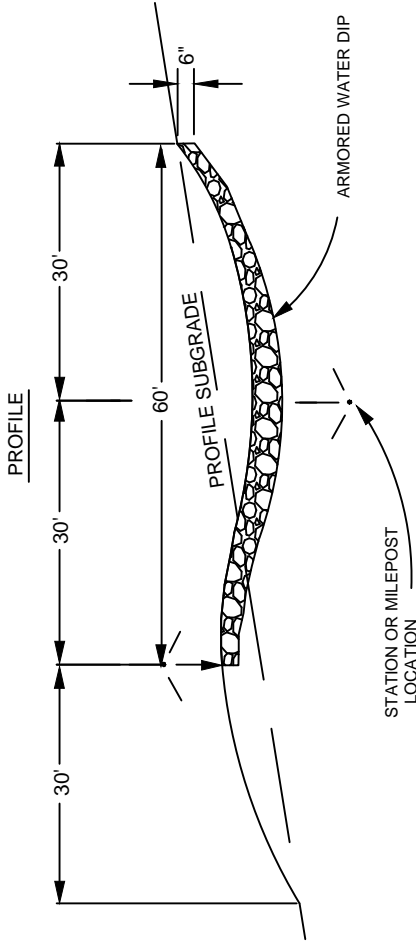
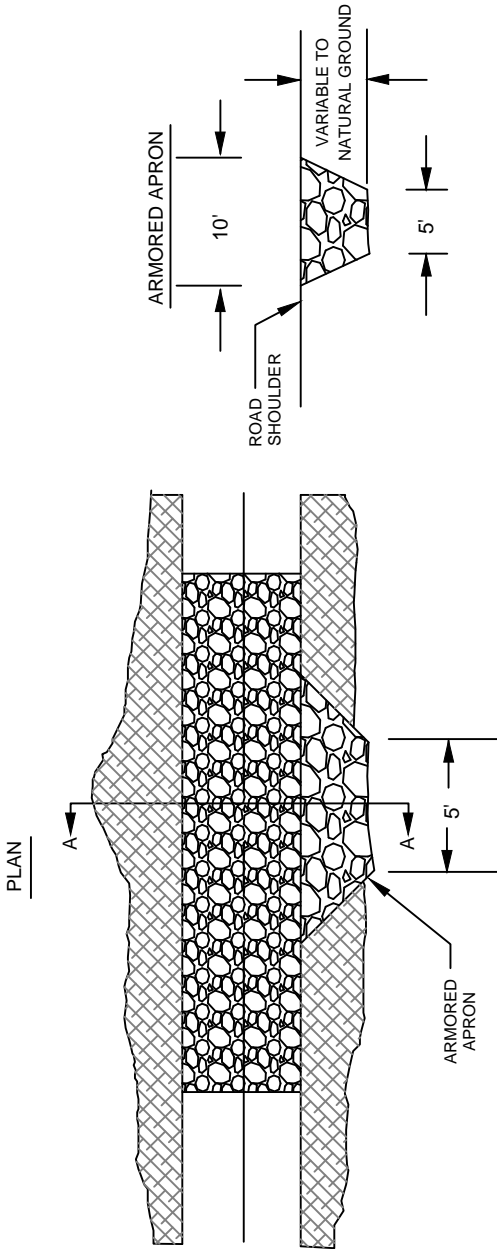
CUT/FILL SLOPES



SUBGRADE ARMOR MATERIAL
(3" minus)



FILL SLOPE ARMOR MATERIAL 12" MINUS
OR OTHER APPROVED MATERIAL.

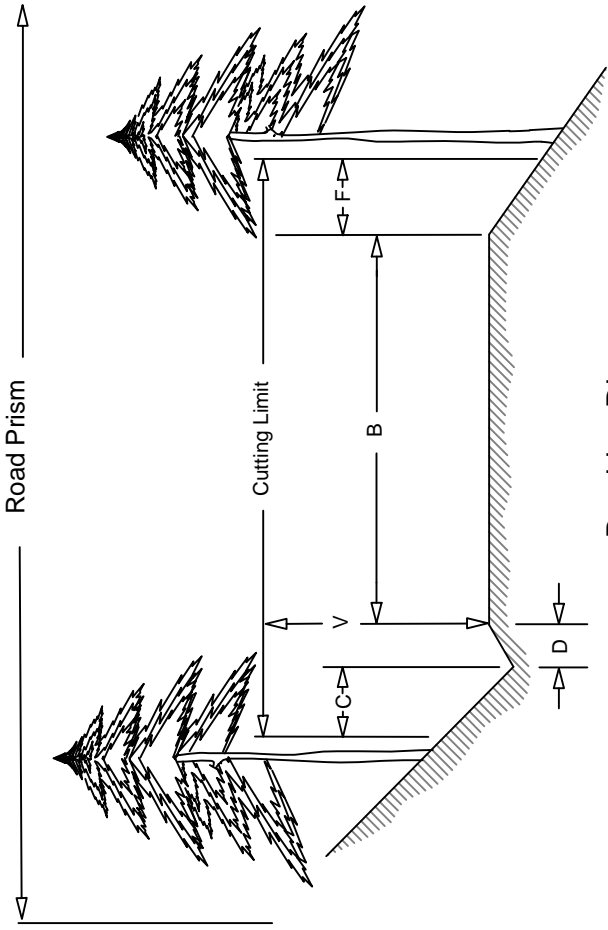


REV. NO.	DESCRIPTION	DATE	APPROV.	
UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT MEDFORD DISTRICT - MEDFORD, OREGON				
OH HENRY TIMBER SALE ARMORED WATER DIP				
DESIGNED: _____				
REVIEWED: _____				
APPROVED: _____				
DRAFTED BY: BLM		SCALE: NONE		
DATE: JUNE 2017		SHEET: 1 OF 1		
DRAWING NO.: OR-11-9113.4-1				

EXHIBIT C8

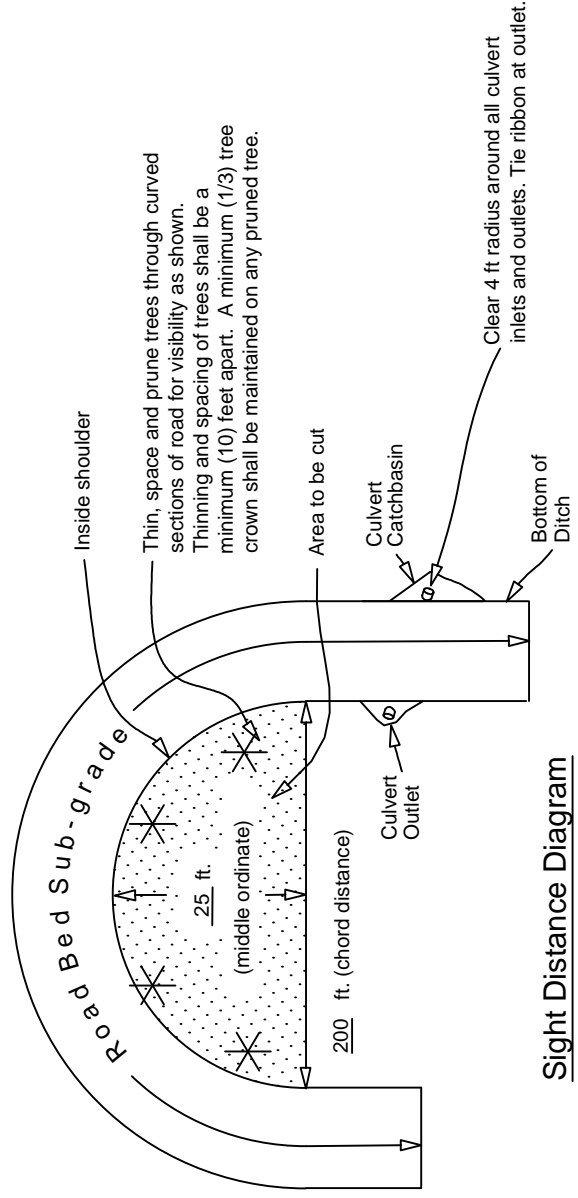
SHEET 1 OF 2

- Cutting Limit = $C + D + B + F$
- B = Road Bed Subgrade (includes turnouts)
Cut all vegetation to max. height of 1".
- C = 4 ft - Distance to be brushed on cut slope
beyond centerline of ditch. Cut all vegetation to max height of 6".
- D = Centerline of ditch to inside shoulder. Cut all vegetation to max. height of 1".
- F = Distance to be brushed on fill slope beyond outside shoulder
Cut all vegetation to max. height of 6".
- V = 14 ft - Height of vertical cutting limit



Brushing Diagram

Inside Corner



Sight Distance Diagram

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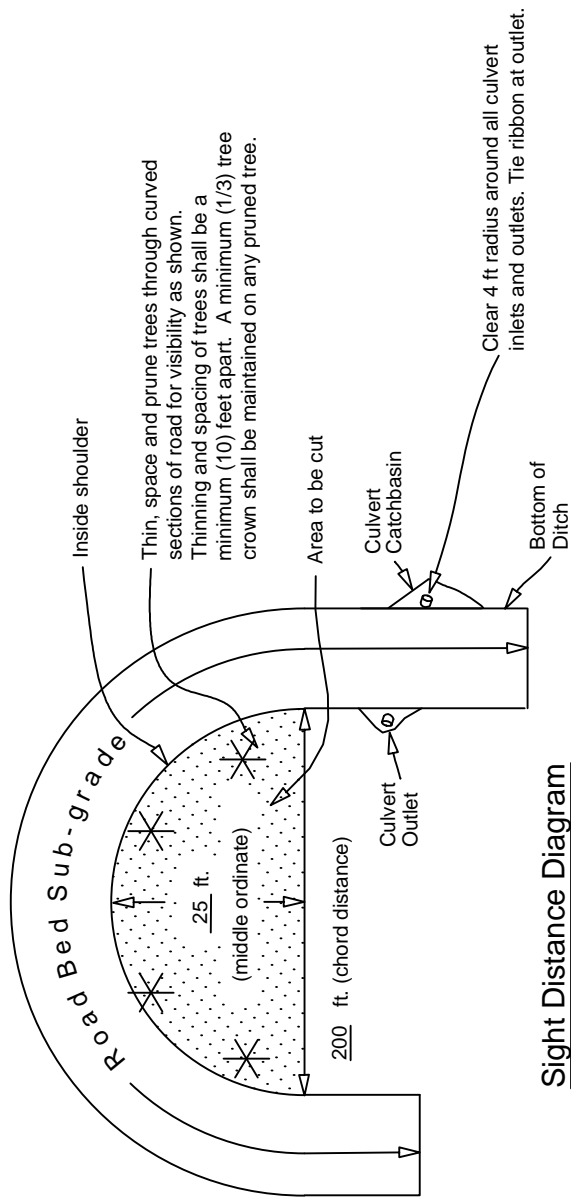
REV. NO.	DESCRIPTION	DATE	APPROV.
UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT MEDFORD DISTRICT - MEDFORD, OREGON			
OH HENRY TIMBER SALE ROADSIDE BRUSHING DETAIL			
DESIGNED: _____			
REVIEWED: _____			
APPROVED: _____			
DRAFTED BY: BLM		SCALE: NONE	
DATE: JULY 2017		SHEET: 1 OF 2	
DRAWING NO.: OR-11-9113.4-4			

ROADSIDE TIMBER UNITS

- Cutting Limit = C + D + B + F
- B = Road Bed Subgrade (includes turnouts)
Cut all vegetation to max. height of 1".
- C = 10 ft - Distance to be brushed on cut slope beyond centerline of ditch. Cut all vegetation to max height of 6".
- D = Centerline of ditch to inside shoulder. Cut all vegetation to max. height of 1".
- F = Distance to be brushed on fill slope beyond outside shoulder
Cut all vegetation to max. height of 6".
- V = 14 ft - Height of vertical cutting limit

Brushing Diagram

Inside Corner



Sight Distance Diagram

ALWAYS
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SAFETY

REV. NO.	DESCRIPTION	DATE	APPROV.
UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT MEDFORD DISTRICT - MEDFORD, OREGON			
OH HENRY TIMBER SALE ROADSIDE TIMBER DETAIL			
DESIGNED: _____			
REVIEWED: _____			
APPROVED: _____			
DRAFTED BY: BLM		SCALE: NONE	
DATE: JULY 2017		SHEET: 2 OF 2	
DRAWING NO.: OR-11-9113.4-4			

SPECIAL PROVISIONS

1. Before the initial start of road renovation, construction, reconstruction, or surfacing operations, or after a shutdown of 7 or more days, the Purchaser shall notify the Authorized Officer 48 hours in advance of the date they plan to begin operations. The Purchaser shall also notify the Authorized Officer if they intend to cease operations for any period of 30 or more days.
2. The contractor shall protect and is responsible for any damage to existing telephone lines, transmission lines, fiber optic lines, fences, ditches, and other existing improvements as required in Section 14. Damage to utilities and existing improvements shall be promptly paid for or repaired to a condition which is, in the opinion of the Authorized Officer and the governing utility company, at least as good as the condition just prior to such damage.
3. All disturbed soil shall be seeded and mulched. Purchaser shall apply native grass seed and Certified Weed Free straw mulch for soil stabilization operations. BLM will furnish native grass seed, **if available**. Certified weed free straw mulch will be the responsibility of the contractor.
4. All stream channel culvert inlets shall be cleaned between **July 1st and September 15th** in accordance with Oregon Department of Fish and Wildlife (ODFW) in-stream work period guidelines.
5. Ensure that all large wood is retained in the stream channel during culvert cleaning activities by moving logs which had accumulated on the stream side of a culvert to the downstream side of the culvert.
6. Roadside brushing cutting limits beneath or adjacent to bridges shall extend 8 feet horizontally from each side of the outermost projected line of the bridge including abutments, curbs, rails or decks. Cut brush and trees shall be removed from beneath the bridge and from the stream channel.
7. While roadside brushing, there shall be no scarring or any other damage of the tree trunk or bole allowed. All debris resulting from roadside brushing activities shall be scattered downslope. Use of Excavators for brush removal will be at the discretion of the Authorized Officer. **All culvert inlets and outlets shall be brushed for a radius of 4 feet.**
8. While roadside brushing through private industry lands, conifer trees at the edges of the cleared area (see cutting limit, Exhibit C8) shall have the branches pruned rather than being felled.
9. All stumps, designated by the Authorized Officer, which would interfere with normal blading and road renovation operations (including turnouts), shall be removed in such a way as to not cause damage to the drainage ditch or the road bed. Stumps that are ground-down, shall be ground to a minimum of 3 inches below existing grade.

UNITED STATES
DEPARTMENT OF INTERIOR
BUREAU OF LAND MANAGEMENT

ROAD MAINTENANCE SPECIFICATIONS

INDEX

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

GENERAL MAINTENANCE – 3000

- 3001 The Purchaser shall be required to maintain all roads listed and/or referenced in section 41, as shown on the Exhibit D maps of this contract in accordance with Sections 3000, 3100, 3200, 3300, and 3400 of this exhibit.
- 3002 The Purchaser shall maintain the cross section of existing dirt or graveled roads to the existing geometric standards. Any roads required to be reconstructed, improved, or renovated under terms of this contract shall be maintained to the geometric standards required in Exhibit C of this contract.
- 3003 The minimum required maintenance on any roads shall include the provisions specified in Subsections 3101, 3104, and 3105.
- 3004 The Purchaser shall be responsible for providing timely maintenance and cleanup on any road(s) with logging units substantially completed prior to moving operations to other roads. The maximum length of non-maintained or non-cleanup of the road prism shall not exceed the sum of one (1) mile at any time. Release of maintenance requirements may be granted, upon written request, when the conditions specified in Sections 3300 and 3400 are met satisfactorily.

OPERATIONAL MAINTENANCE - 3100

- 3101 The Purchaser shall blade and shape the road surface and shoulders with a motor grader. Banks shall not be undercut. Back blading with tractors or similar equipment will be allowed only around landings and other areas when approved by the Authorized Officer.
- 3103 The purchaser shall maintain established berms and place additional berms using adjacent material where needed to protect fills as directed by the Authorized Officer.
- 3104 The purchaser shall perform other road cleanup including removal of debris, fallen timber, bank slough, and slides which can practicably be accomplished by a motor grader, rubber tired front end bucket loader, rubber tired backhoe or comparable equipment, and by the use of hand tools.
- 3104a Removal of bank slough and slide material includes placement of material at the nearest designated and suitable disposal site, where material cannot erode into streams, lakes, or reservoirs or cause undue damage to road fill slopes which have been planted or mulched to control soil erosion as directed by the Authorized Officer.

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

Prior to removal of any slough or slide material exceeding 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 the work, based on the current BLM Road Cost Guide. Adjustments in purchase price for completed work shall be made, as necessary, and no less than once per year when actual work is ongoing.

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

- 3106 The Purchaser shall be responsible for repair and replacement of all materials eroded from road shoulders and fill slopes, up to 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 repair and replacement of eroded material exceeding 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 Road Cost Guide. Adjustments in purchase price for completed work shall be made, as necessary, and no less than once per year when actual work is ongoing.

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

The Purchaser shall also remove 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 cutting and chipping in accordance with Section 2100 of the Exhibit C-9 Specifications.

- 3108 The Purchaser shall avoid fouling gravel 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. Repairs required, that were caused by such skidding activities, are not considered maintenance and shall be repaired at the Purchaser's expense.

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

SEASONAL MAINTENANCE - 3200

- 3201 The Purchaser shall perform preventative maintenance at the end of Purchaser's hauling each season and during non-hauling periods which occur between other operations on the contract area. This includes requirements specified in Section 3100.
- 3202 The purchaser shall perform and complete maintenance specified in Sections 3000, 3100, and 3200 on all roads maintained by him, prior to October 1st each year, except as specified in Subsection 3203, after initial commencement of construction or logging operations. Thereafter, all roads shall have continuous preventive maintenance and road cleanup until suspension of seasonal operations. This includes all roads used and not used during the 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 thirty 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 Sec. 16(b), Special Provisions (Sections 3000, 3100, 3200 and 3300 of the maintenance specifications) have been completed and a relinquishment of cutting and removal rights on cutting units tributary to these roads is signed by the Purchaser. Request for partial acceptance must be submitted in writing by the Purchaser.

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

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

OTHER MAINTENANCE - 3400

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

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

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

- 3403 The Purchaser shall be required to furnish and apply non-saline water during dry hauling periods, when directed by the Authorized Officer, for the purpose of laying dust and to prevent loss of surface material. The first application of water shall be made at the rate of one-half gallon per yd² of road surface traveled. Subsequent applications shall be made for each 40 MBF of timber or 120 yds³ of rock hauled. Subsequent watering may be done at a rate less than one-half gallon per yd² when a specified lesser rate is approved by the Authorized Officer.

The Purchaser shall secure any necessary water permits and pay all required water fees for use of the water source(s) selected by the Purchaser.

During drought periods when the transportation of water from the source to the roads noted above exceeds (20) miles, a reduction shall be made in the total purchase price to reflect the additional haul or the substitution of other acceptable dust palliatives in lieu of watering based on equipment rental rates from the current BLM Road Cost Guide.

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

- 3404 The Purchaser may at his option and expense substitute lignin sulfonate or magnesium chloride for water on any or all road segments listed in Subsection 3403 or 3403a provided that written approval is received from the Authorized Officer. Such authorization shall include the approval of product specifications for the application of the product to be used. Multiple applications may be required to maintain the conditions specified in Subsection 3403.
- 3405b The Purchaser shall notify affected residents along the roads to be treated of the planned application of lignin sulfonate or magnesium chloride dust palliatives at least (3) days prior to the work. Warning signs shall be posted at key intersections to alert users that the road is being treated. All signs shall be removed by the Purchaser within thirty (30) days of treatment.
- 3406 Prior to the application of lignin sulfonate or magnesium chloride dust palliatives, the roadbed shall be bladed and shaped to remove surface irregularities and excess loose material. The prepared surface must be visibly moist and drying.
- 3406b A light application of water to promote penetration shall be made in advance of the application of the specified dust palliative to allow the drying process to begin and to eliminate any saturated surface conditions.
- 3406c The prepared roadbed shall be approved by the Authorized Officer prior to application of the specified dust palliative.
- 3407 The Purchaser shall furnish in duplicate, commercial certification signed by vendor of compliance with the lignin sulfonate or magnesium chloride dust palliatives material requirements specified under Subsection (3412b) (3412c). Commercial certification includes the date, identification number of truck or trailer, net mass, and brand name with each shipment. Also provide the net volume and specific gravity at 60 degrees

F, percent solids by mass, and PH.

- 3408 Dust palliatives shall be applied with standard commercial distribution equipment operated in a manner that the material is uniformly applied on variable widths of surface at controlled rates.
- 3409 The Purchaser shall notify the Authorized Officer a minimum of (3) days in advance of application of required dust palliative.
- 3410 The Purchaser shall submit an application schedule for all dust palliative work to the Authorized Officer for approval. All work shall be in accordance with the approved plan.
- 3411 If used, lignin sulfonate or magnesium chloride dust palliatives shall only be applied when the atmospheric temperature is 45° F and steady or rising and when the weather is not foggy or rainy. Do not apply dust palliative if rain is anticipated within 24 hours of application or when the ground is frozen.
- 3412 If used, the Purchaser shall apply to the prepared roadbed specified under Subsection 3406, a lignin sulfonate or magnesium chloride dust palliative conforming to the material requirements of Subsection (3412b) (3412c). The rate of application shall be (0.5) gallons per yd² surface.

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

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

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

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

- 3412b Specifications for Lignin Sulfonate:

Lignin sulfonate shall be the chemical residue produced as a byproduct of the acid sulfite pulping process and supplied as a water solution. The base cation shall be ammonia, calcium, or sodium. The product shall be water soluble to allow field

dilution. Dilute with water until the mixture contains a minimum 48 percent concentration with the following properties:

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

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

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

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

3412c Specifications for magnesium chloride:

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

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

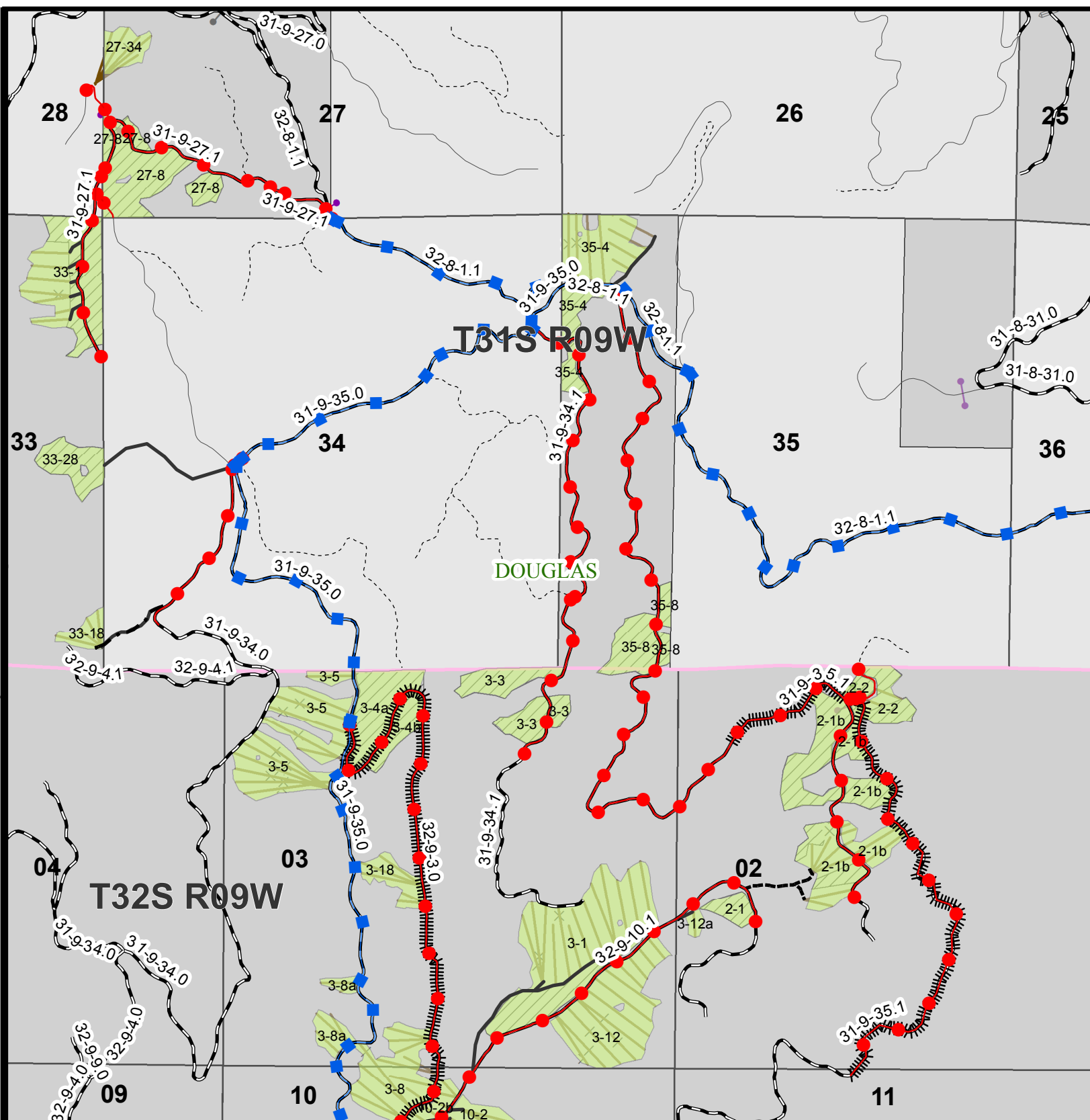
selenium	5.00 ppm
zinc	10.00 ppm
sulfate	4.3 percent maximum
nitrate	5.0 percent maximum.

Concentration specifications for Magnesium chloride

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

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

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

**Legend**

● PURCHASER MAINT

■ BLM MAINT

Oh Henry Units

ROADSIDE UNITS

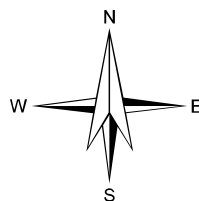
Ownership**PROPERTY STATUS**

Bureau of Land Management

Private



0 0.15 0.3 0.45 0.6 Mile



UNITED STATES DEPARTMENT OF INTERIOR
BUREAU OF LAND MANAGEMENT
MEDFORD DISTRICT - MEDFORD OREGON

OH HENRY TIMBER SALE ROAD MAINTENANCE

DESIGNED: _____

REVIEWED: _____

APPROVED: _____

DATE: JUNE 2017

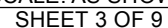
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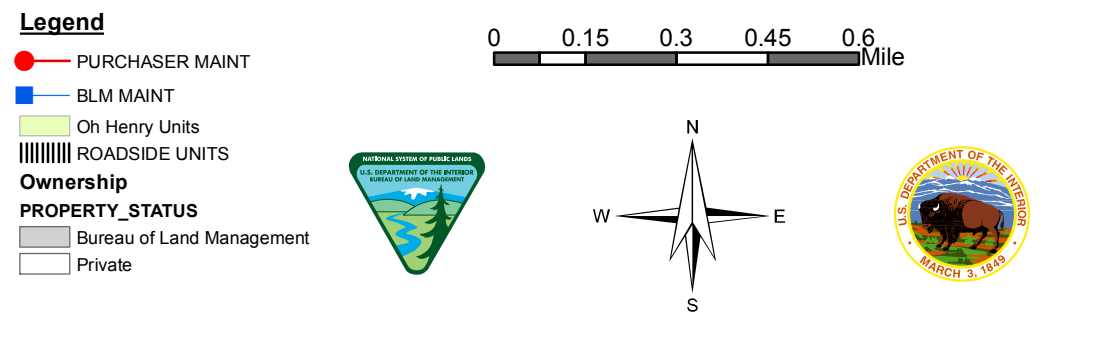
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SHEET 1 OF 9

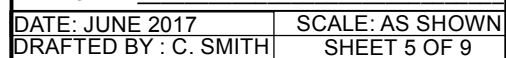


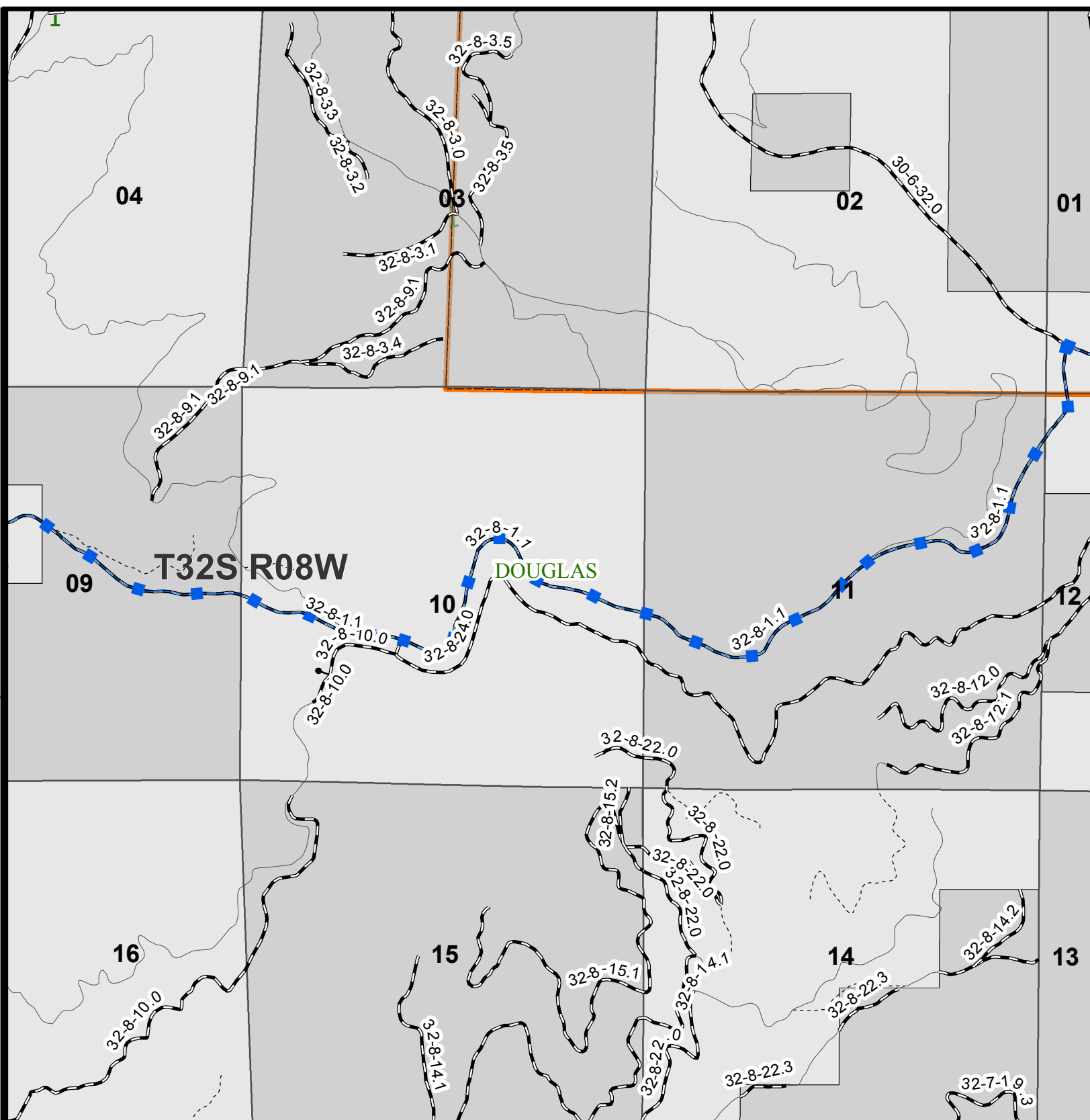
EXHIBIT D-2





DESIGNED: _____	
REVIEWED: _____	
APPROVED: _____	
DATE: JUNE 2017	SCALE: AS SHOWN
DRAFTED BY : C. SMITH	SHEET 4 OF 9



**Legend**

● PURCHASER MAINT

■ BLM MAINT

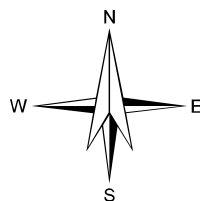
Oh Henry Units

ROADSIDE UNITS

Ownership**PROPERTY STATUS**

■ Bureau of Land Management

□ Private



UNITED STATES DEPARTMENT OF INTERIOR
BUREAU OF LAND MANAGEMENT
MEDFORD DISTRICT - MEDFORD OREGON

OH HENRY TIMBER SALE ROAD MAINTENANCE

DESIGNED: _____

REVIEWED: _____

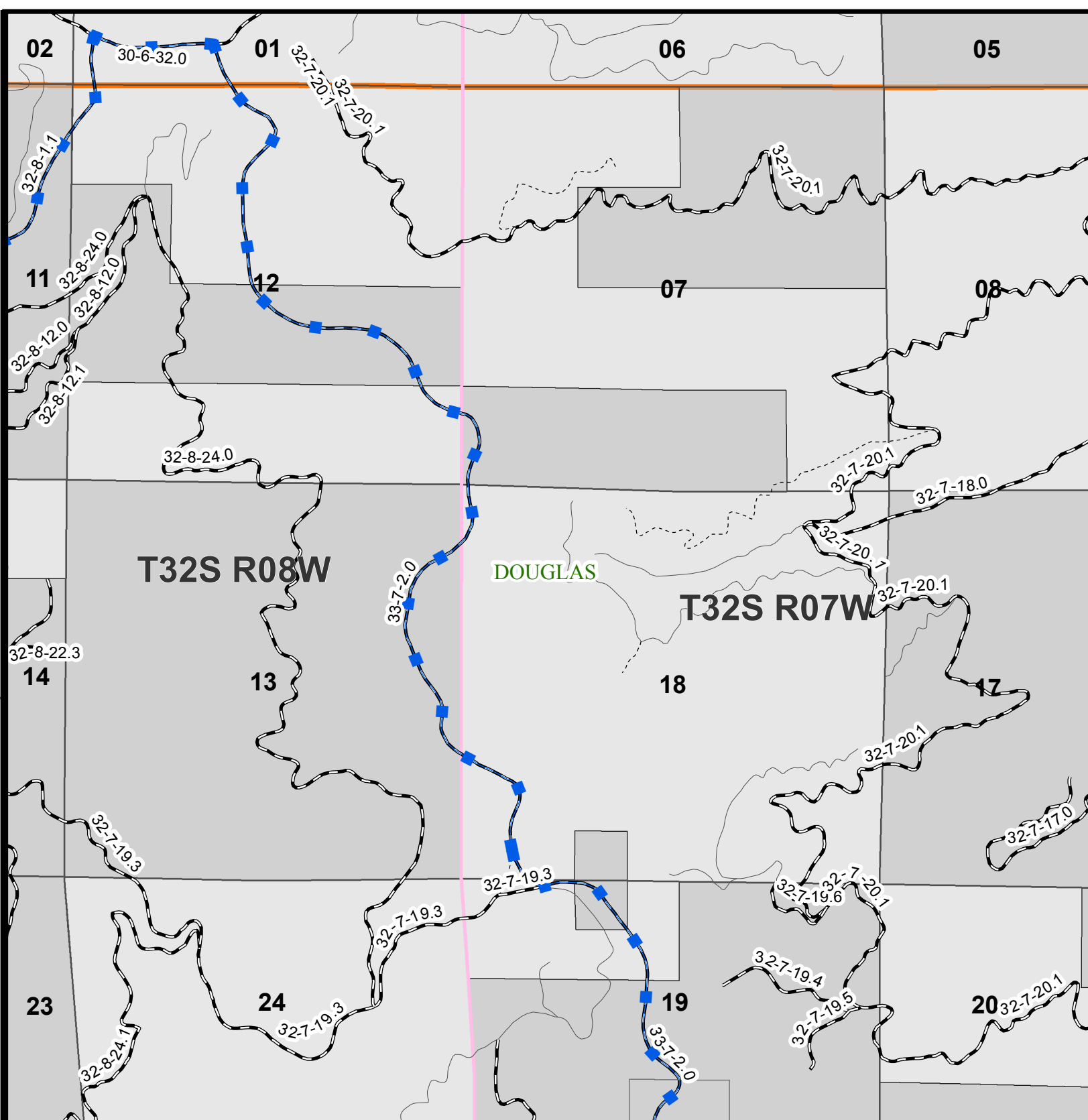
APPROVED: _____

DATE: JUNE 2017

DRAFTED BY: C. SMITH

SCALE: AS SHOWN

SHEET 6 OF 9

**Legend**

● PURCHASER MAINT

■ BLM MAINT

Oh Henry Units

ROADSIDE UNITS

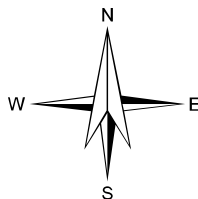
Ownership**PROPERTY STATUS**

■ Bureau of Land Management

□ Private



0 0.15 0.3 0.45 0.6 Mile



UNITED STATES DEPARTMENT OF INTERIOR
BUREAU OF LAND MANAGEMENT
MEDFORD DISTRICT - MEDFORD OREGON

OH HENRY TIMBER SALE ROAD MAINTENANCE

DESIGNED: _____

REVIEWED: _____

APPROVED: _____

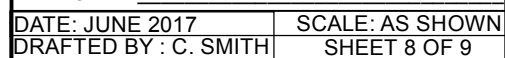
DATE: JUNE 2017

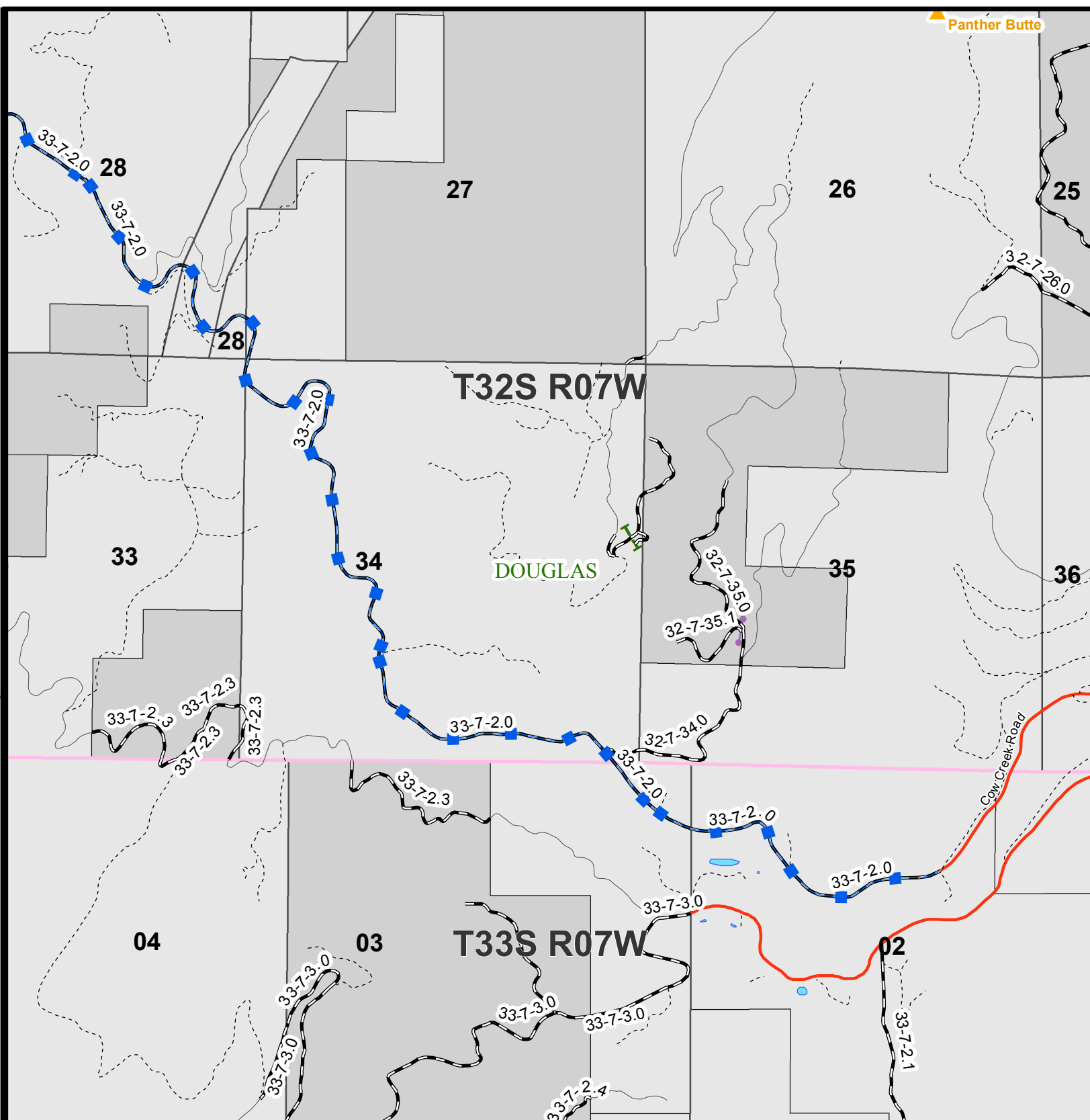
DRAFTED BY: C. SMITH

SCALE: AS SHOWN

SHEET 7 OF 9

EXHIBIT D-2



**Legend**

PURCHASER MAINT

BLM MAINT

Oh Henry Units

ROADSIDE UNITS

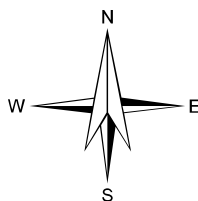
Ownership**PROPERTY STATUS**

Bureau of Land Management

Private



0 0.15 0.3 0.45 0.6
Mile



UNITED STATES DEPARTMENT OF INTERIOR
BUREAU OF LAND MANAGEMENT
MEDFORD DISTRICT - MEDFORD OREGON

OH HENRY TIMBER SALE ROAD MAINTENANCE

DESIGNED: _____

REVIEWED: _____

APPROVED: _____

DATE: JUNE 2017

DRAFTED BY: C. SMITH

SCALE: AS SHOWN

SHEET 9 OF 9

SELECTION CRITERIA-DESIGNATION BY PRESCRIPTION EXHIBIT E

The Selection Criteria shown below shall be used by the Purchaser in determining which trees are to be retained and which trees are to be cut and removed. The Selection of retention shall comply with Oh Henry Special Provisions Sec 41. The Purchaser shall leave all boundary trees, trees marked with orange paint and/or flagging, hardwood trees greater than 16 inches, non-hazardous snags, suitable leave trees, and pre-existing dead and down material.

Treatment Objectives: To facilitate helicopter yarding, create ¼ acre gaps as identified on Exhibit A maps, Exhibit E5 & E6 maps, and described in Table 1. Observe all guidelines described below and in Appendix I of this Exhibit.

Suitable & Preferred Leave Trees (see also Appendix 1):

- *Marbled murrelet* (MAMU) trees - Leave DF \geq 30 inches DBH with large limbs (> 4 inches diameter) and retain adjacent trees with >10% interlocking crowns (see example in Appendix, p.3).

Orange Tied with Yellow Flagged and Posted Prescription Line Changes:

- The southern boundary of Unit **1-11B** is marked by a prescription (Rx) change line that delineates the area where gaps are to be located. This Rx change line is posted and painted. This line divides treatment areas of basal area thinning from gap openings (ie., cable yarding from helicopter yarding).
- See Exhibit A map for location of prescription line change.

Table 1. Prescription guidelines

Unit #	Acres	Notes
1-5	24	<p>Fourteen ¼ ac circular treatment areas have been mapped as gap openings. The center of each treatment area is identified by a double banded orange paint tree at DBH, orange-stump mark, yellow flagging, and streamer of yellow flagging to identify a center radius. From each center point cut a slope distance of 58.9 feet radius to equal a ¼ ac circle. Edges of gaps should be ~160 ft. apart from each other and ~160 feet apart from MAMU trees. The remaining untreated unit will provide the remaining canopy cover to meet 60% overall canopy cover.</p> <p>Apply the clearing distance of 30' to one designated SP (marked with the number 30).</p>
1-11B	North 39	<p>Rx line change – flagged in Orange tied w/Yellow, posted & painted Orange (see Exhibit A Map) that marks the south boundary of treatment area.</p> <p>Thirty-one ¼ ac circular treatment areas have been mapped as gap openings. The center of each treatment area is identified by a double banded orange paint tree at DBH, individually numbered in orange paint (1-31), orange-stump mark, yellow flagging, and streamer of yellow flagging to identify a center radius. From each center point cut a slope distance of 58.9 feet radius to equal a ¼ ac circle. Edges of gaps should be ~160 ft. apart from each other and ~160 feet apart from MAMU trees. The remaining untreated unit will provide the remaining canopy cover to meet 60% overall canopy cover.</p>

APPENDIX I

Appendix I Preferred leave trees



For marbled murrelet (MAMU):
Leave DF trees > 30 inches DBH with large limbs (> 4 inches diameter) *and* retain adjacent trees with >10% of the crowns interlocking.

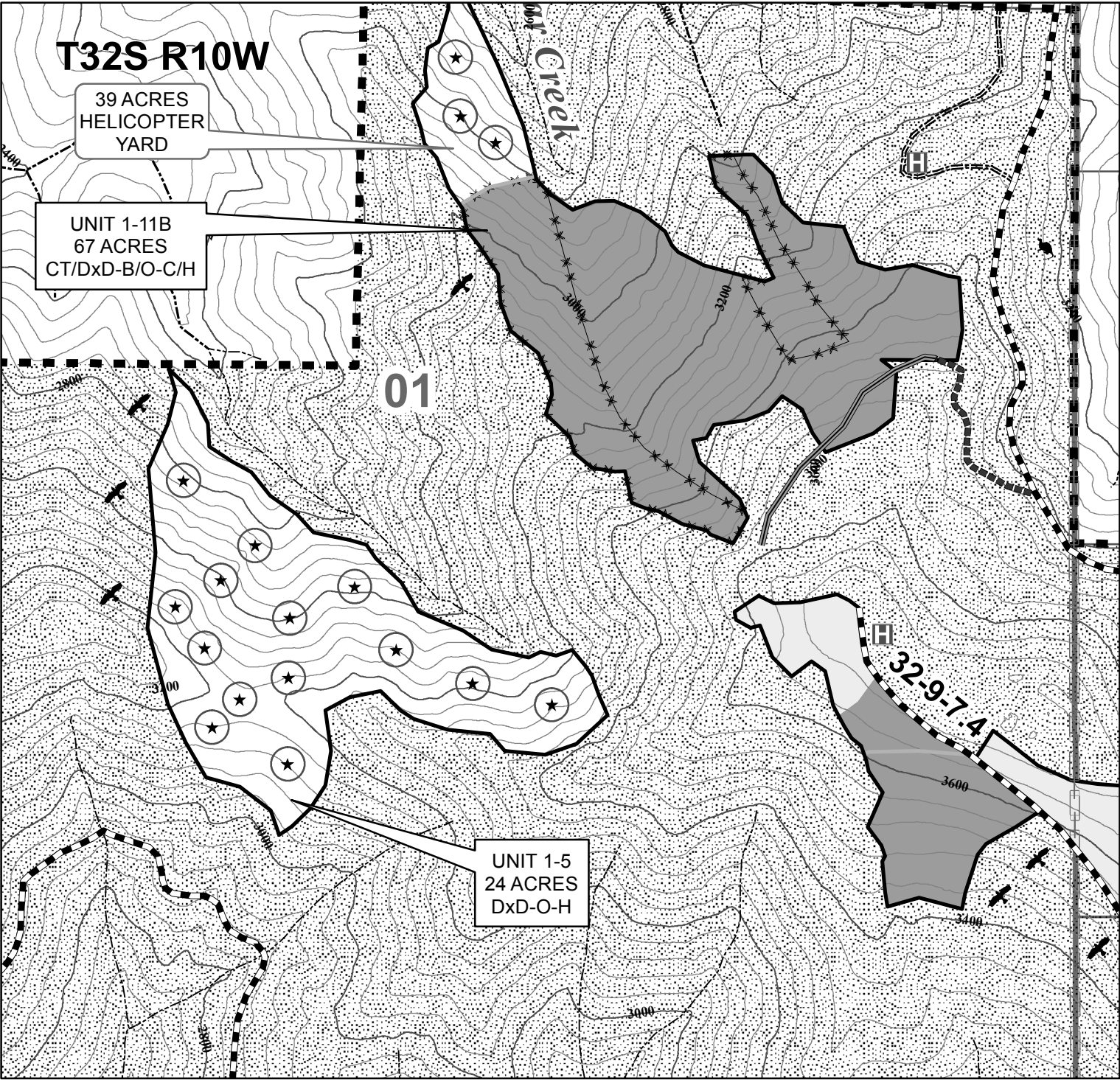
DEFINITIONS

DBH: Diameter of the tree at breast height, measured at four point five feet (4.5') above the ground level from the uphill side of the tree.

Dominant: A tree whose crown extends above the general level of the main canopy, receiving full light from above and partial light from the sides.

Hardwood: A live green broad-leaved tree which usually has a single well-defined trunk, exhibits > 30% live crown ratio and is capable of attaining a height greater than 20 feet. These include, but are not limited to alder, chinquapin, bigleaf maple, madrone, and oak species. Sprouting hardwood species may be in the form of multi-stemmed clumps originating from the base of a single defined stump.

Leave tree: Live green tree to be retained within the specifications of this prescription. These include live green conifers and large hardwoods (see Appendix 1).



0 375 750 1,500 Feet

1 inch = 500 feet 40 FOOT CONTOUR INTERVAL



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Legend

- ★ Heli_gap_centers_GPSd_Contract
- Oh_Henry_Contract_Heli_Circles
- Potential Helicopter Landing
- Rx_Change_Line flagged in yellow
- FGR_Waterbar_Corridors
- Owl_Buffer

Streams
PLANFLOW

- I
- P

Temporary_Routes

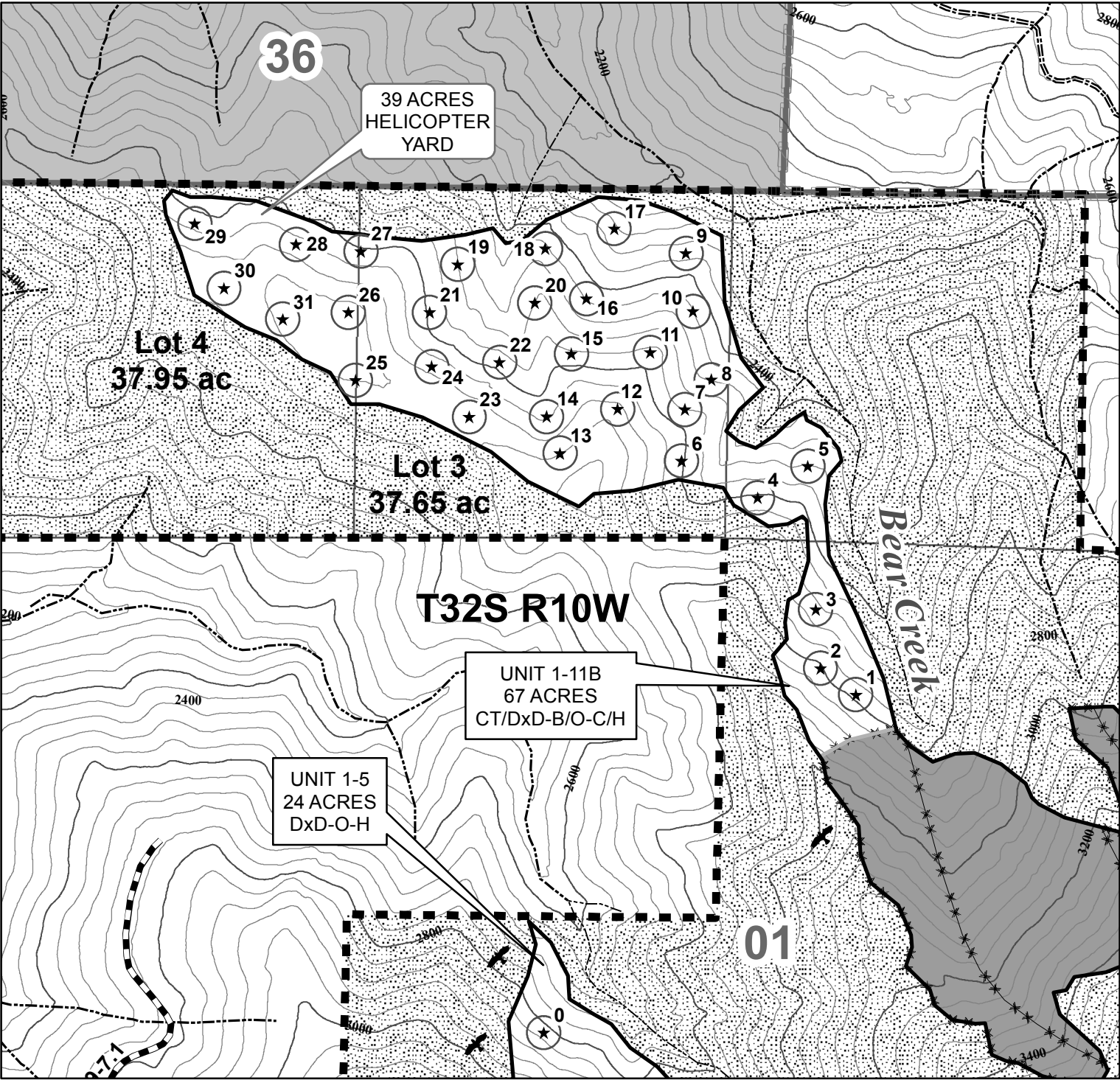
- Temp. Construction
- Temp. Reconstruction
- Tractor Swing Route

Roads

- Surface Type
- Paved
- Rocked
- Natural

Oh Henry Timber Sale Unit

- Logging System
- Helicopter
- Cable
- Ground Based



0 375 750 1,500 Feet

1 inch = 500 feet 40 FOOT CONTOUR INTERVAL



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Legend

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- Oh_Henry_Contract_Heli_Circles
- Potential Helicopter Landing
- Rx_Change_Line flagged in yellow
- FGR_Waterbar_Corridors
- Owl_Buffer

Streams

- PLANFLOW
- I
- P

Temporary_Routes

- Construction Type
- Temp. Construction
- Temp. Reconstruction
- Tractor Swing Route

Roads

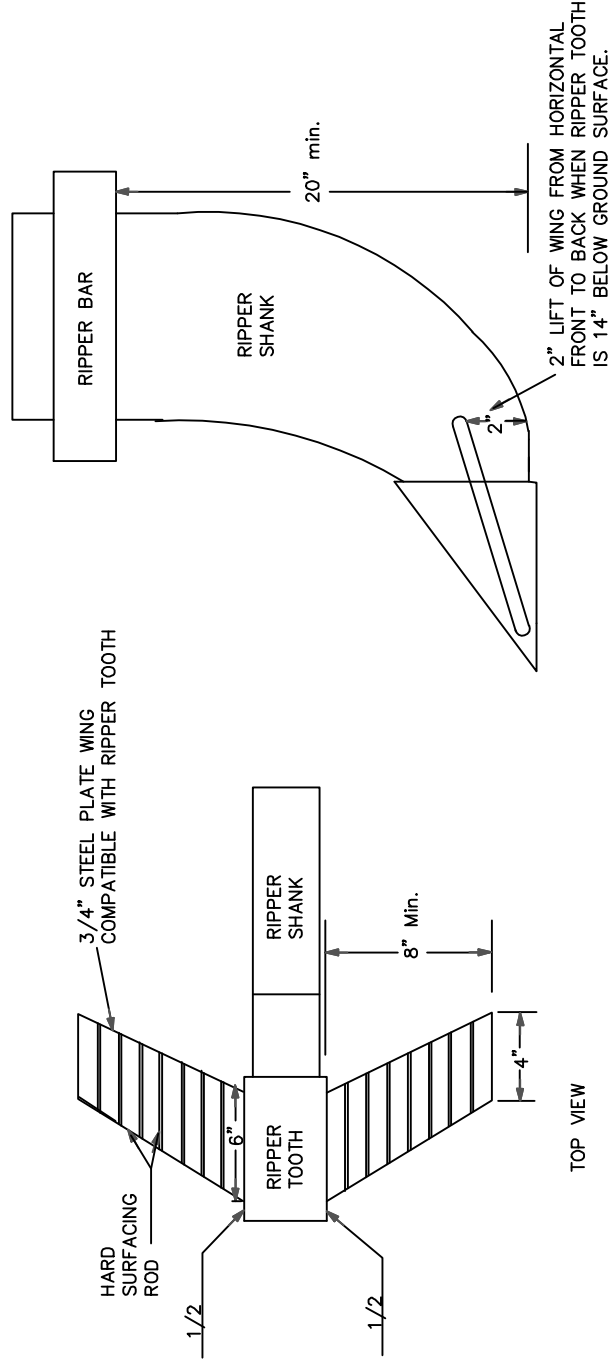
- Surface Type
- Paved
- Rocked
- Natural

Oh Henry Timber Sale Unit

- Logging System
- Helicopter
- Cable
- Ground Based

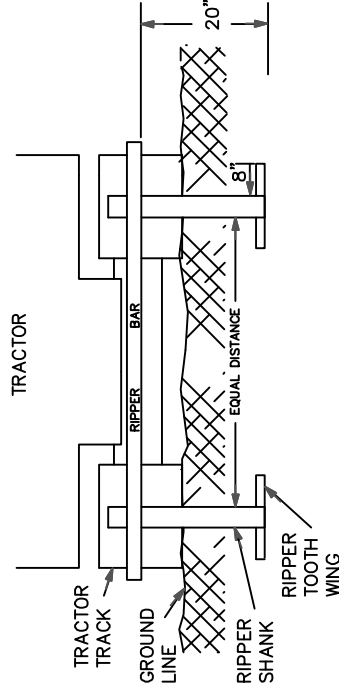
EXHIBIT R

SHEET 1 OF 1



SIDE VIEW

TYPICAL RIPPER POSITION



NOTES: TYPICAL RIPPER TOOTH CONSTRUCTION

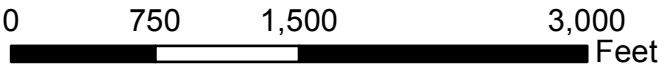
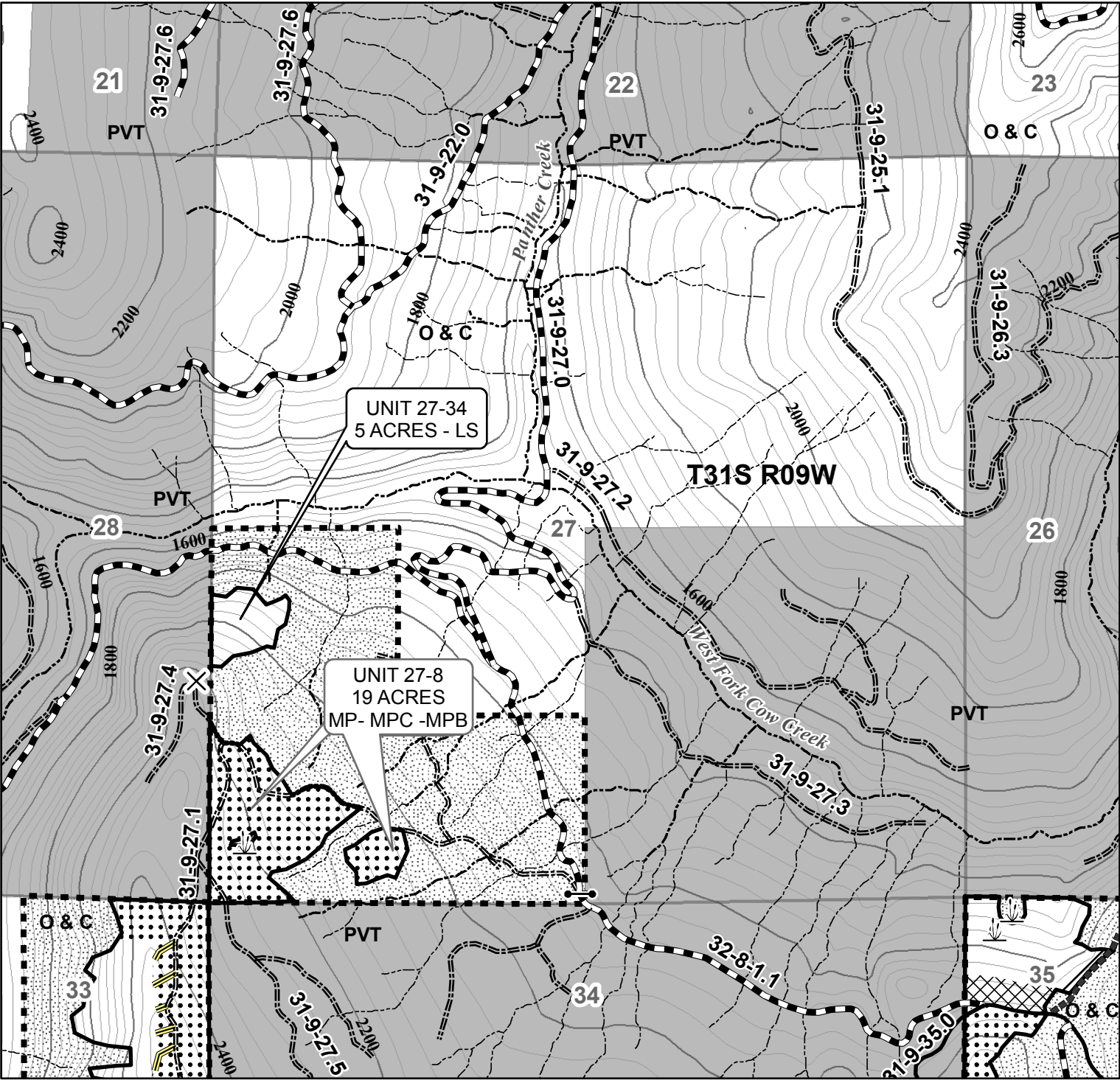
1. USE HARD SURFACING ROD FOR ALL EDGE AND SURFACE REINFORCEMENT.
2. WELD THAT ATTACHES WINGS TO RIPPER TEETH MUST BE COMPATIBLE WITH METAL IN TEETH AND WINGS.
3. RIPPER SHANKS AND RIPPER TEETH MAY BE NEW OR USED.
4. WINGS SHALL PROVIDE TWO (2) INCHES OF LIFT FROM THE HORIZONTAL WHEN TEETH ARE EXTENDED FOURTEEN (14) INCHES BELOW THE GROUND SURFACE.

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
ASHLAND RESOURCE AREA MEDFORD DISTRICT

WING RIPPER DETAIL

DESIGNED _____
REVIEWED _____
APPROVED _____

DRAWN: JWR
DATE: October 2009
SCALE: NONE
SHEET 1 OF 1
DRAWING NO.



1 inch = 1,000 feet



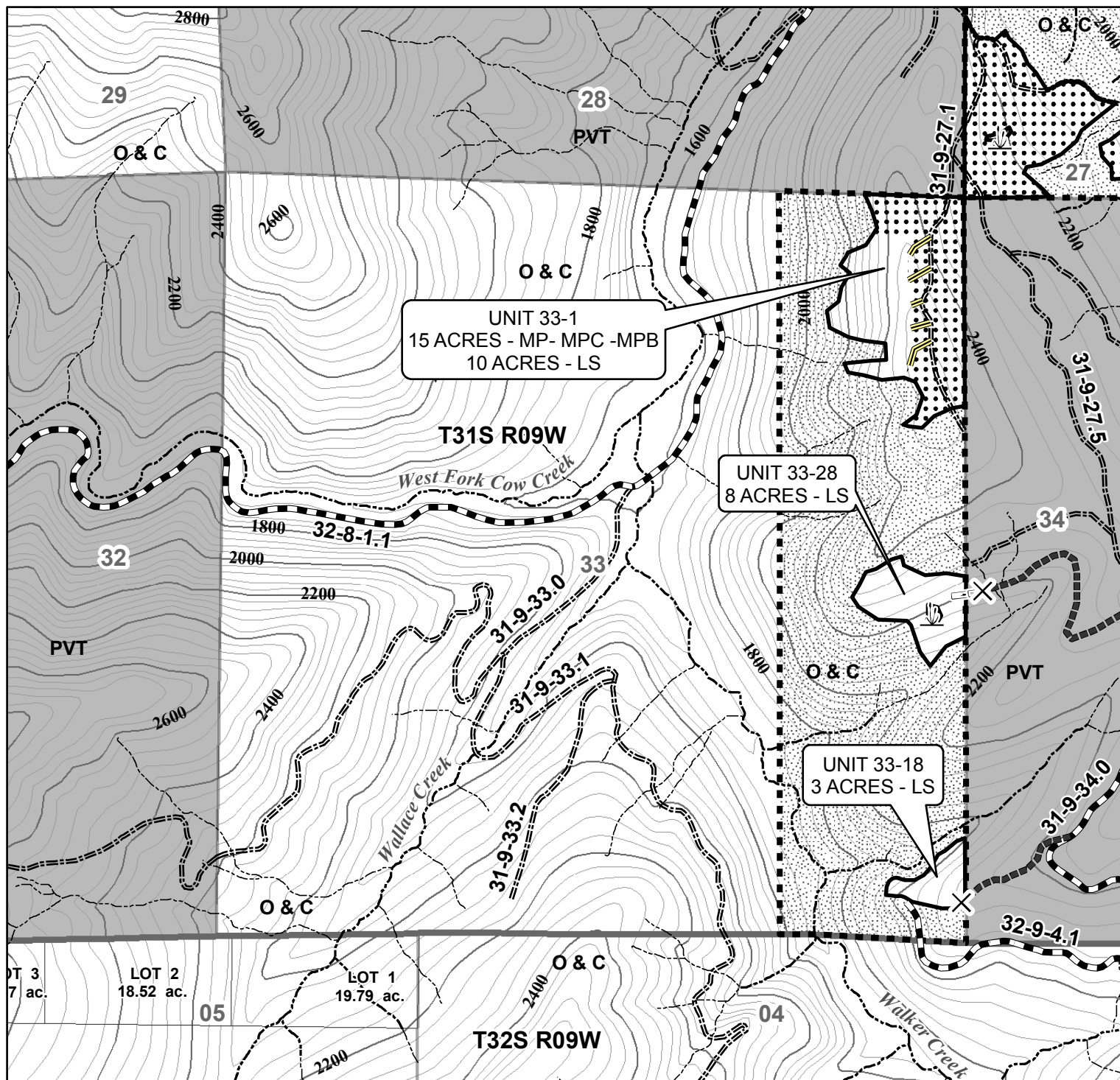
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40 FOOT CONTOUR INTERVAL

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Map created by SDT
7/6/2017





0 750 1,500 3,000 Feet

1 inch = 1,000 feet

40 FOOT CONTOUR INTERVAL

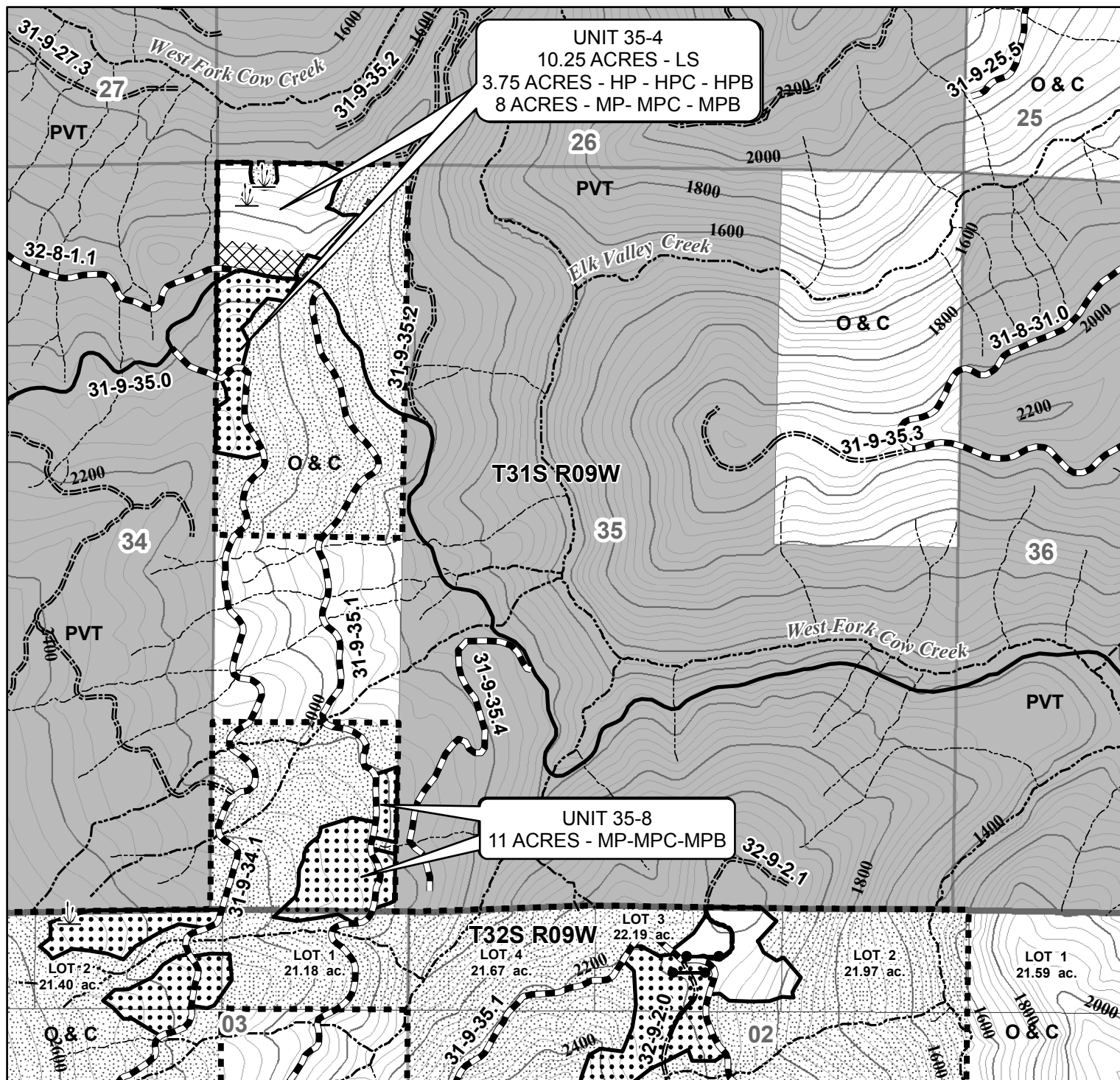


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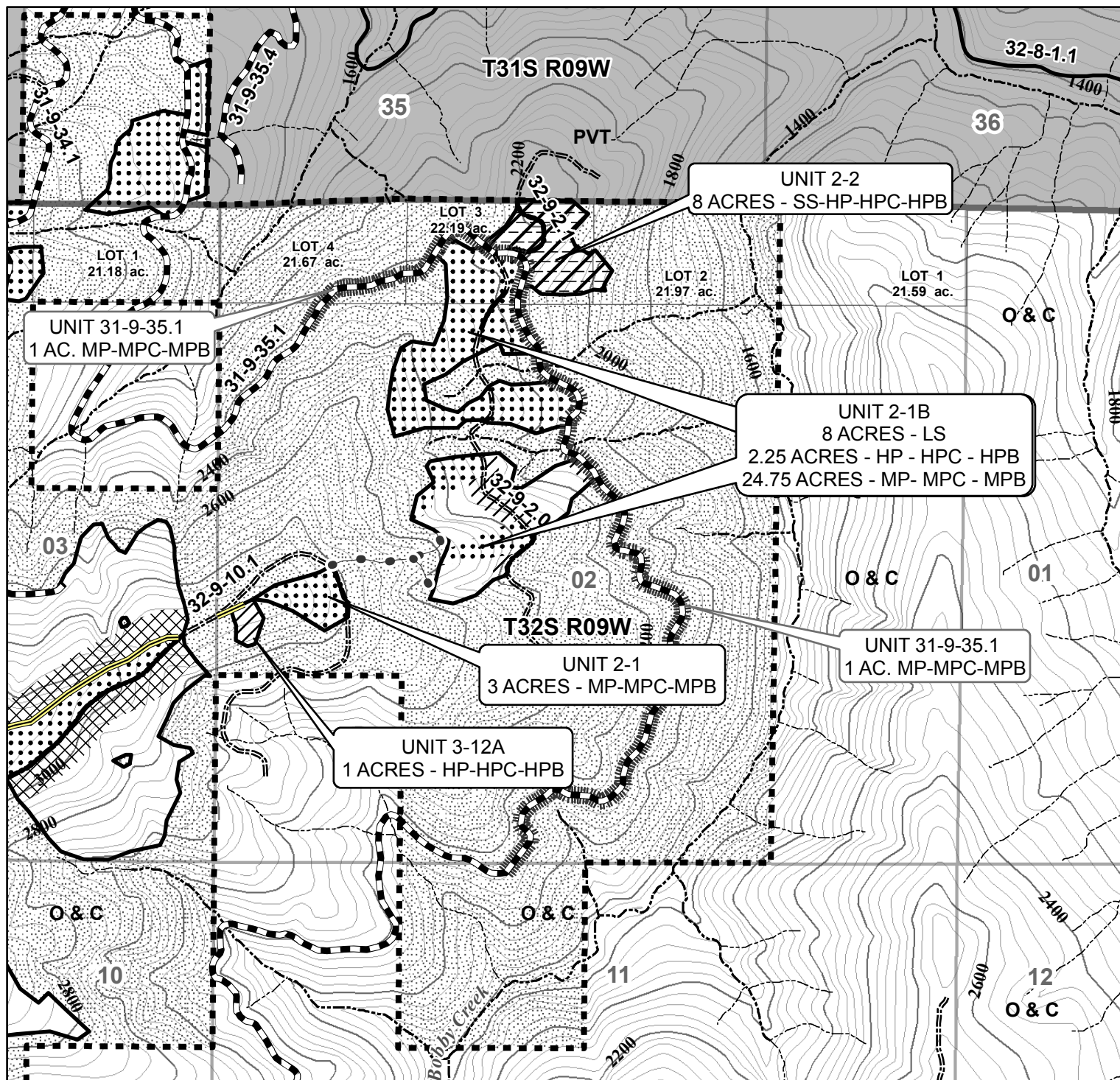
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1 inch = 1,000 feet

100 FOOT CONTOUR INTERVAL

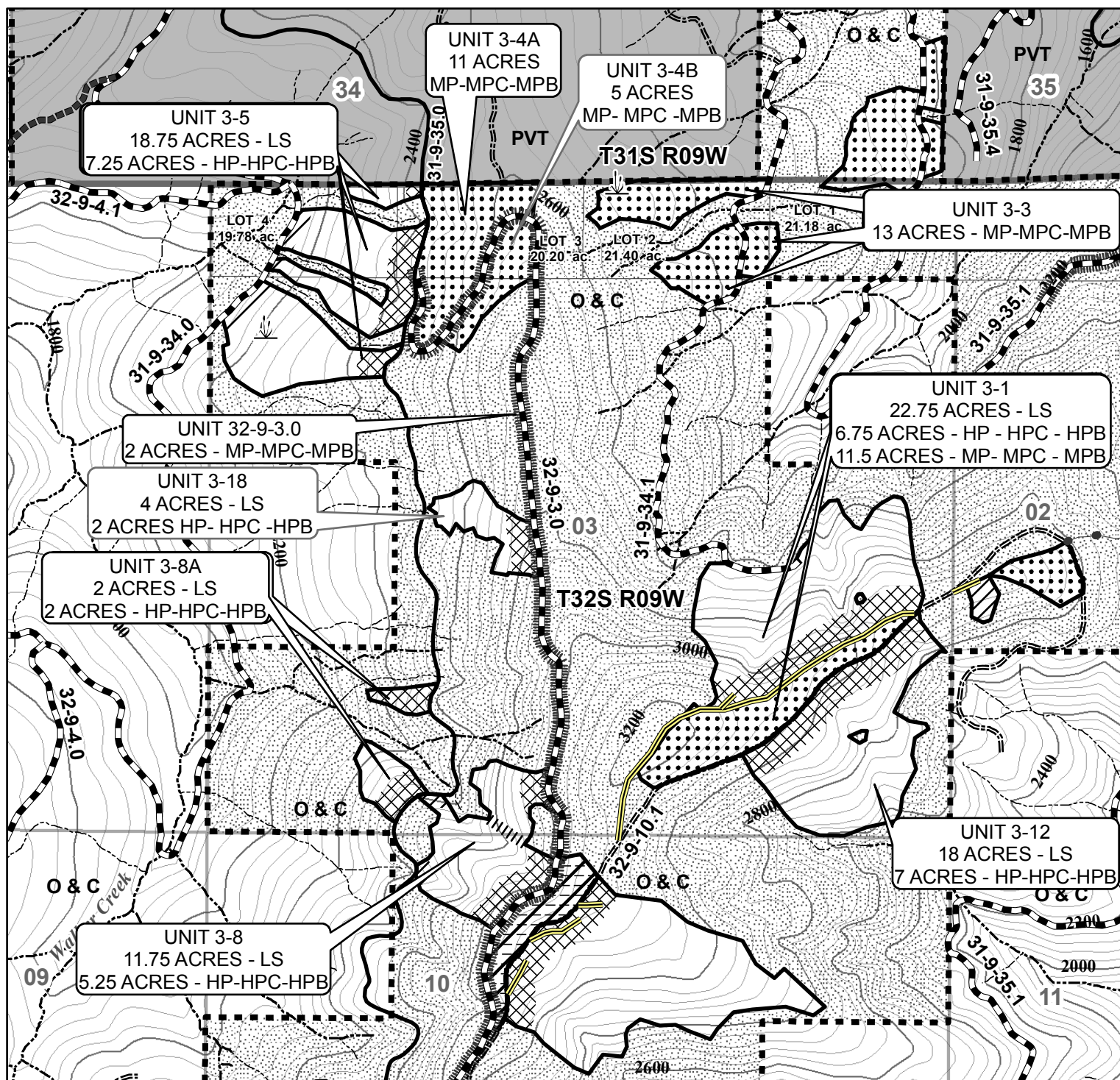


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0 750 1,500 3,000 Feet

1 inch = 1,000 feet



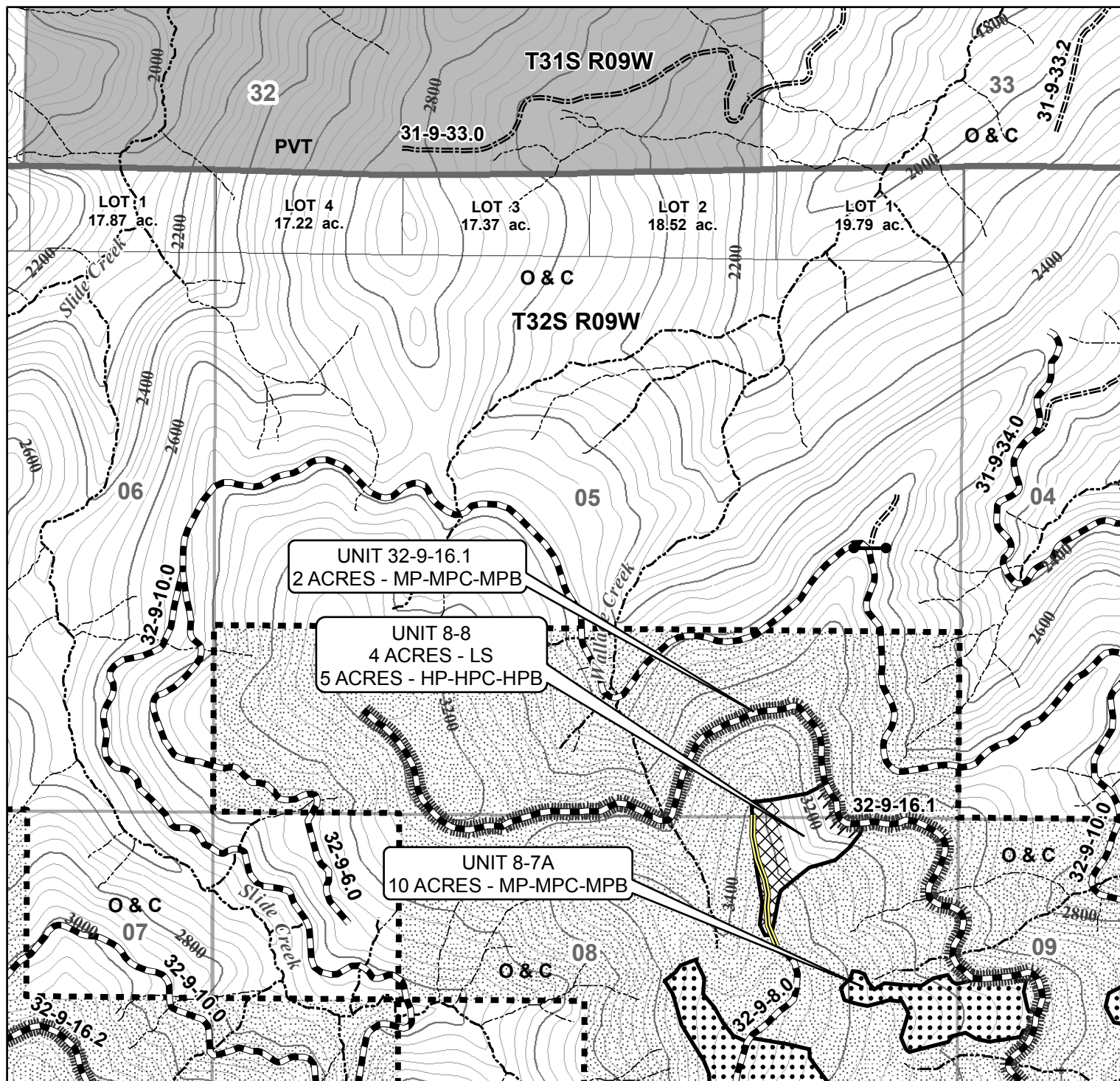
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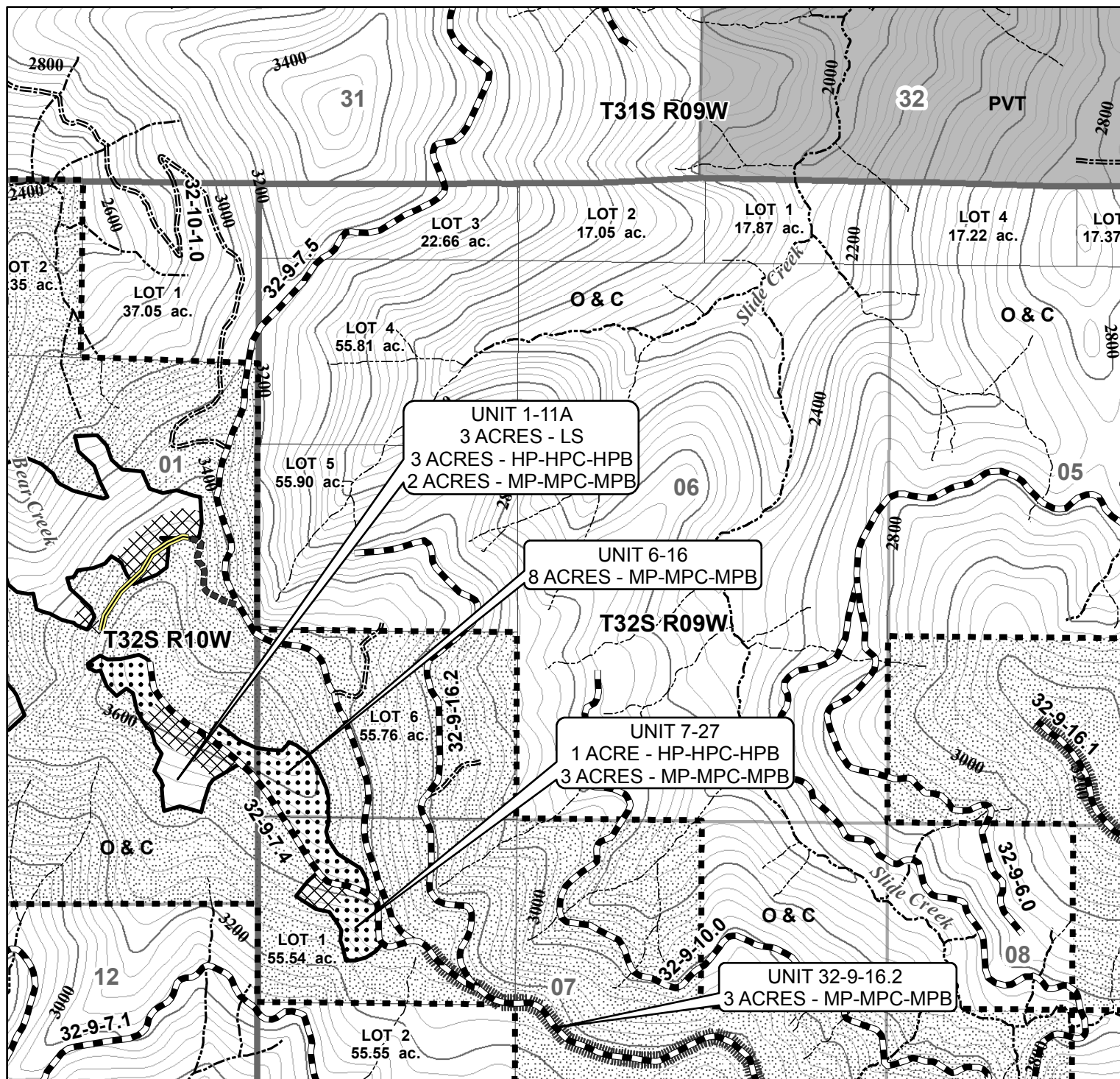
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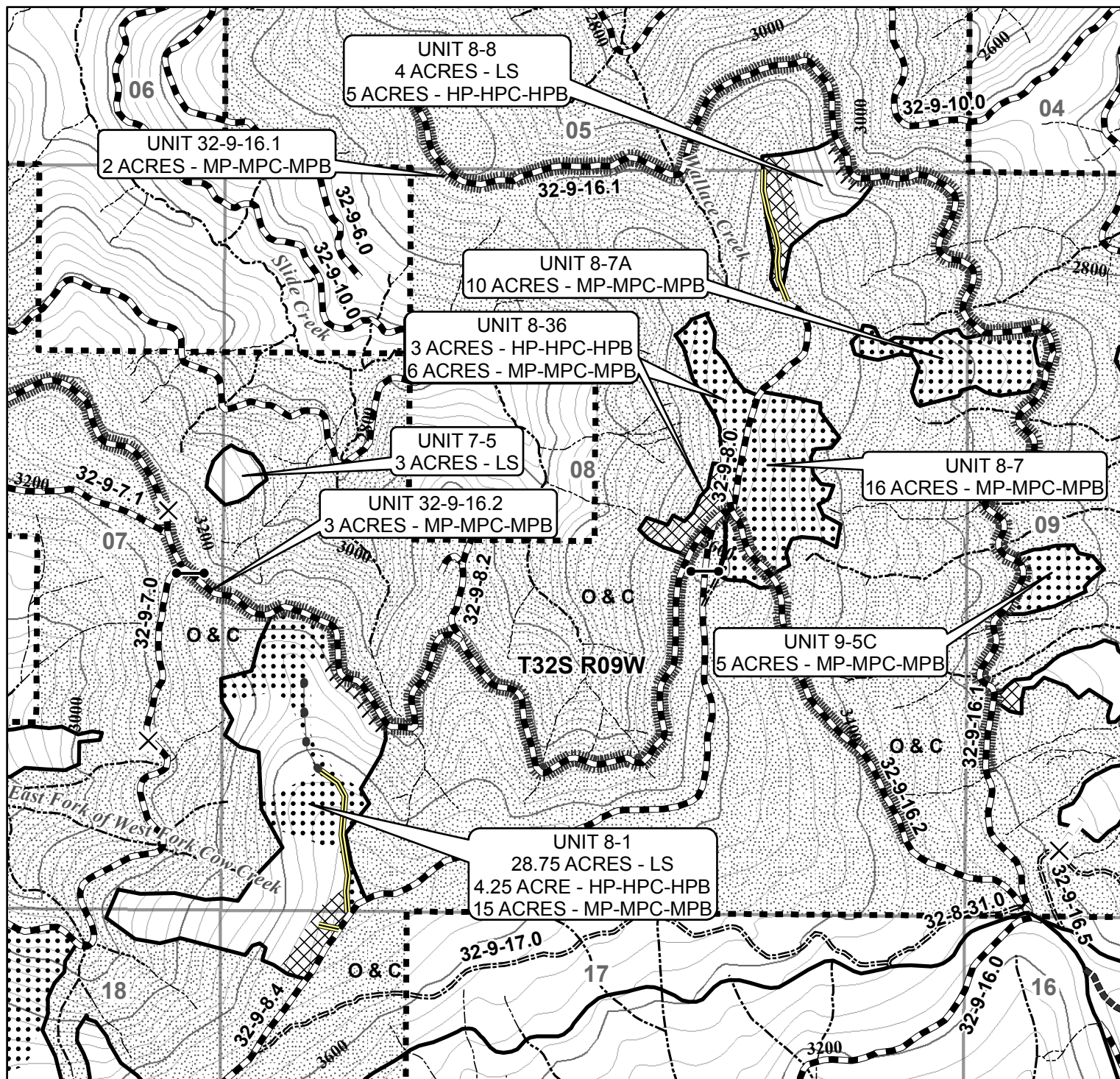
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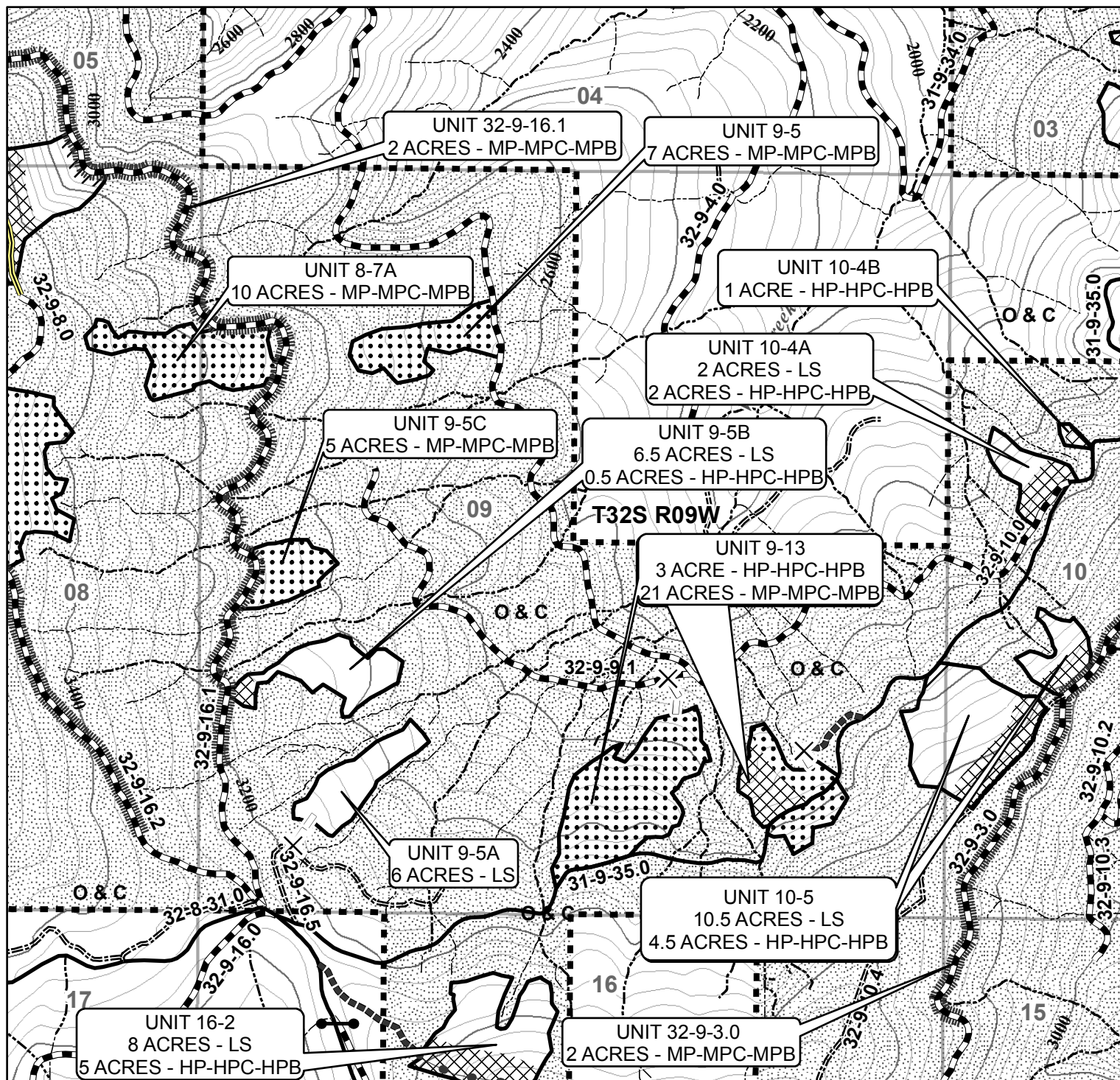
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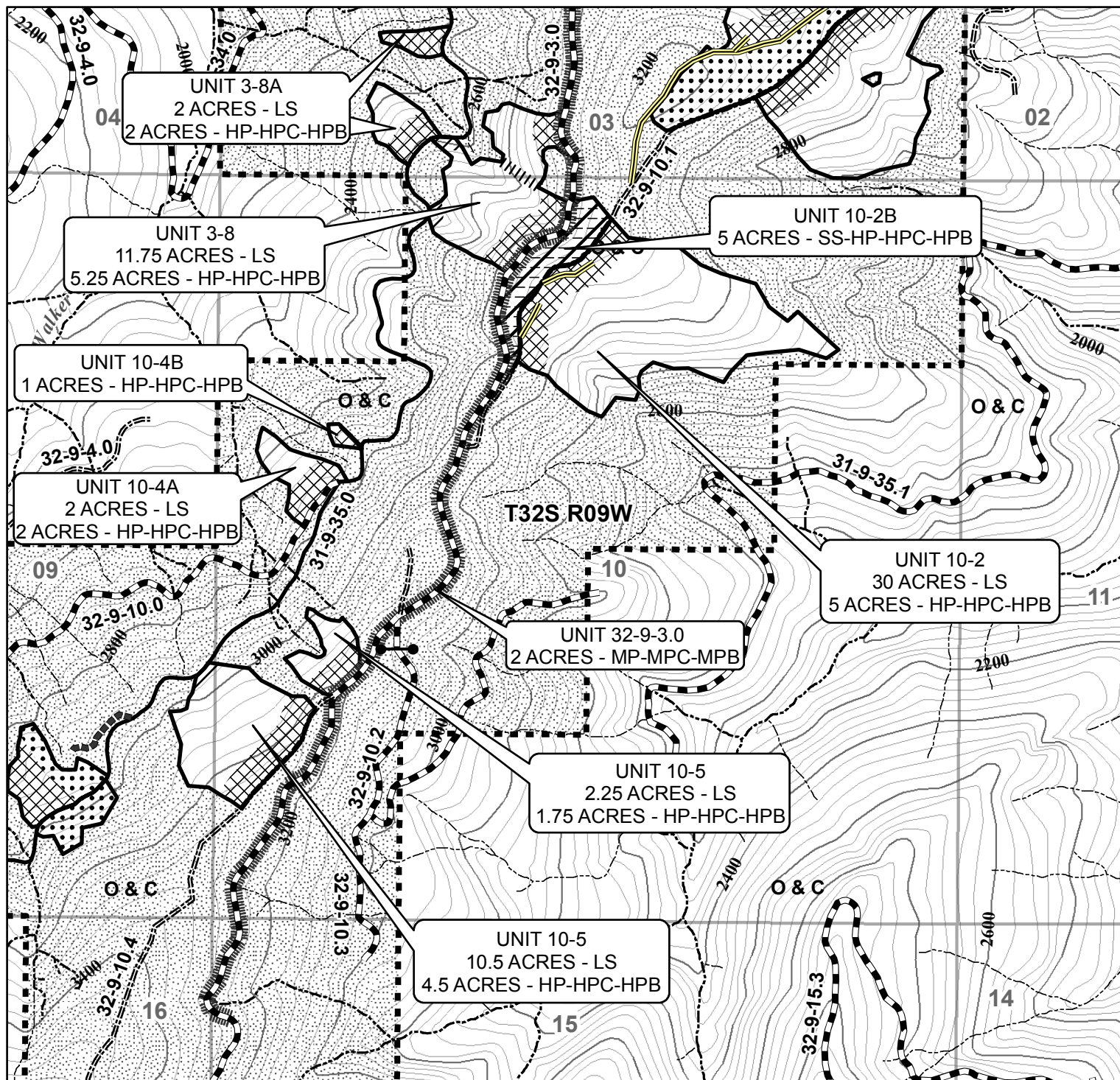
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0 750 1,500 3,000
Feet

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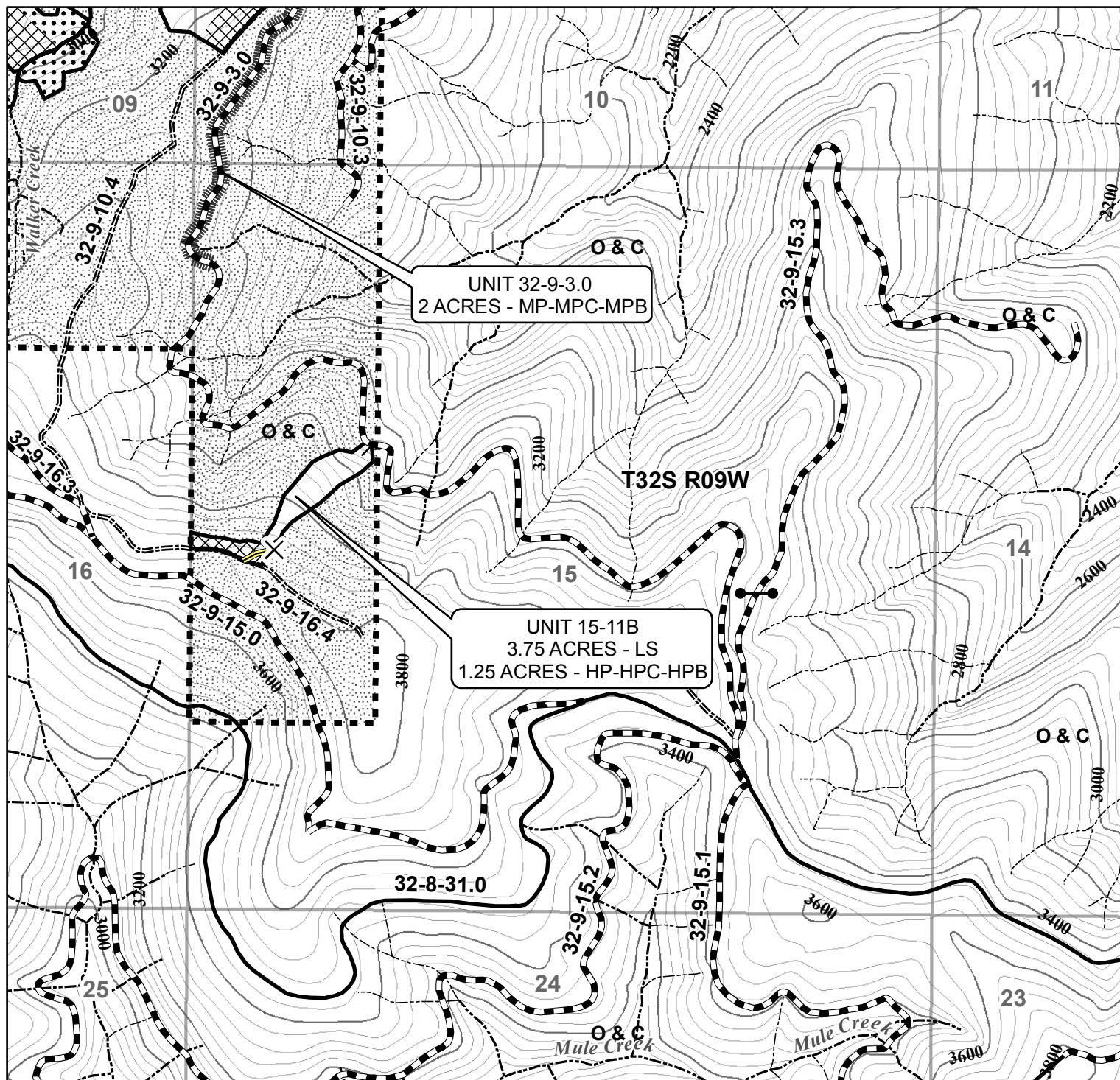
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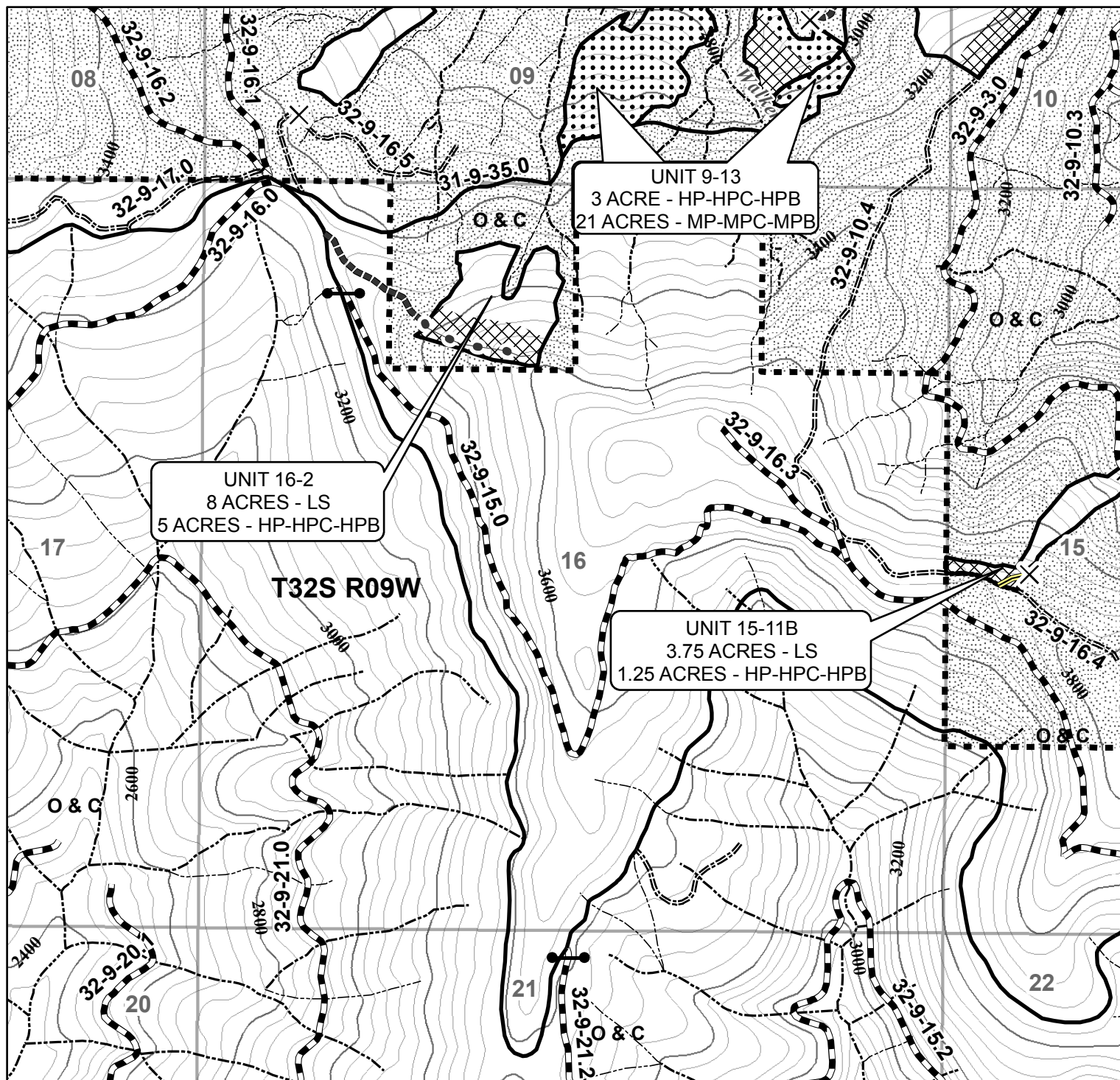
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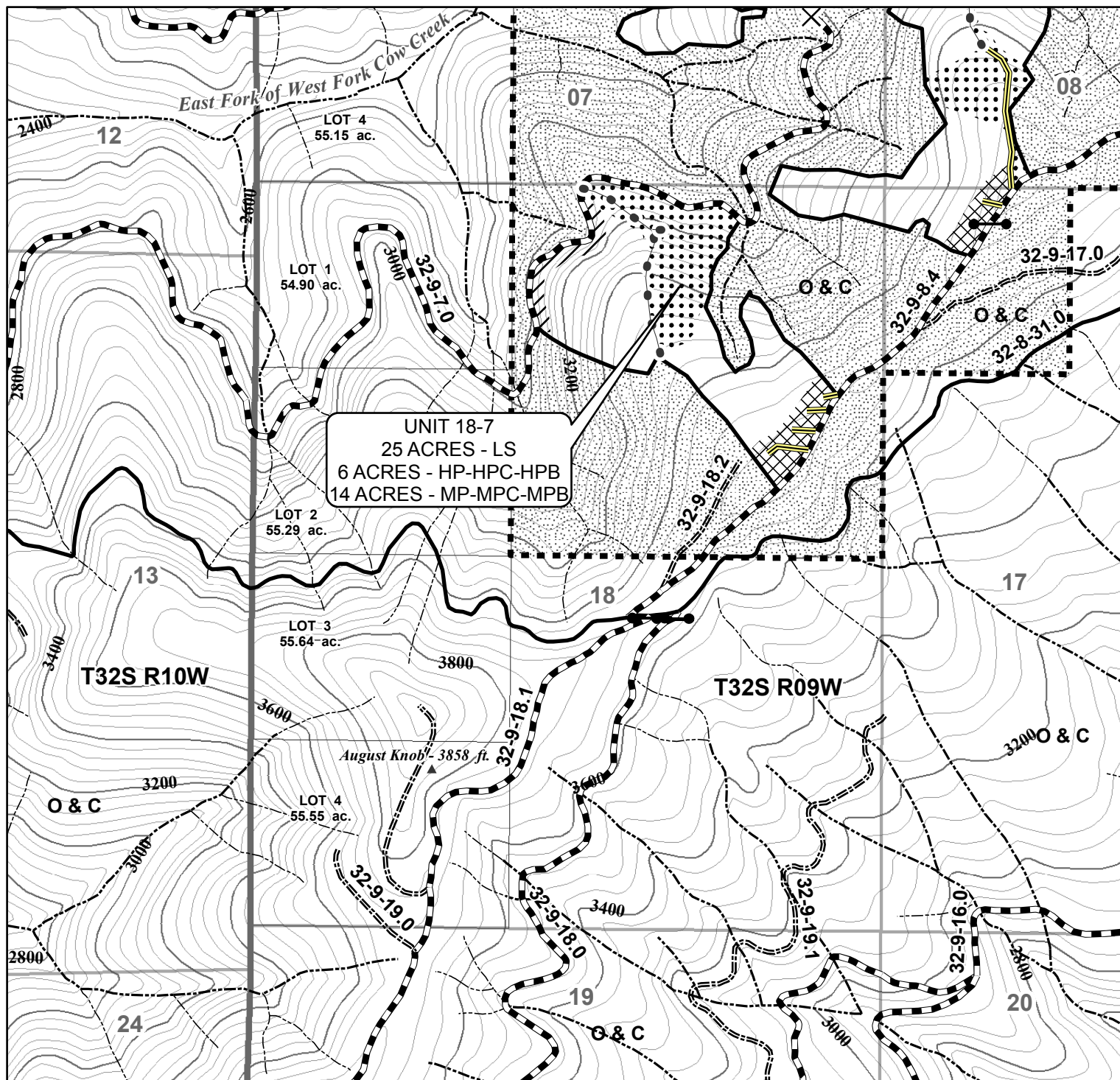
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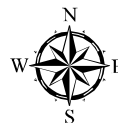
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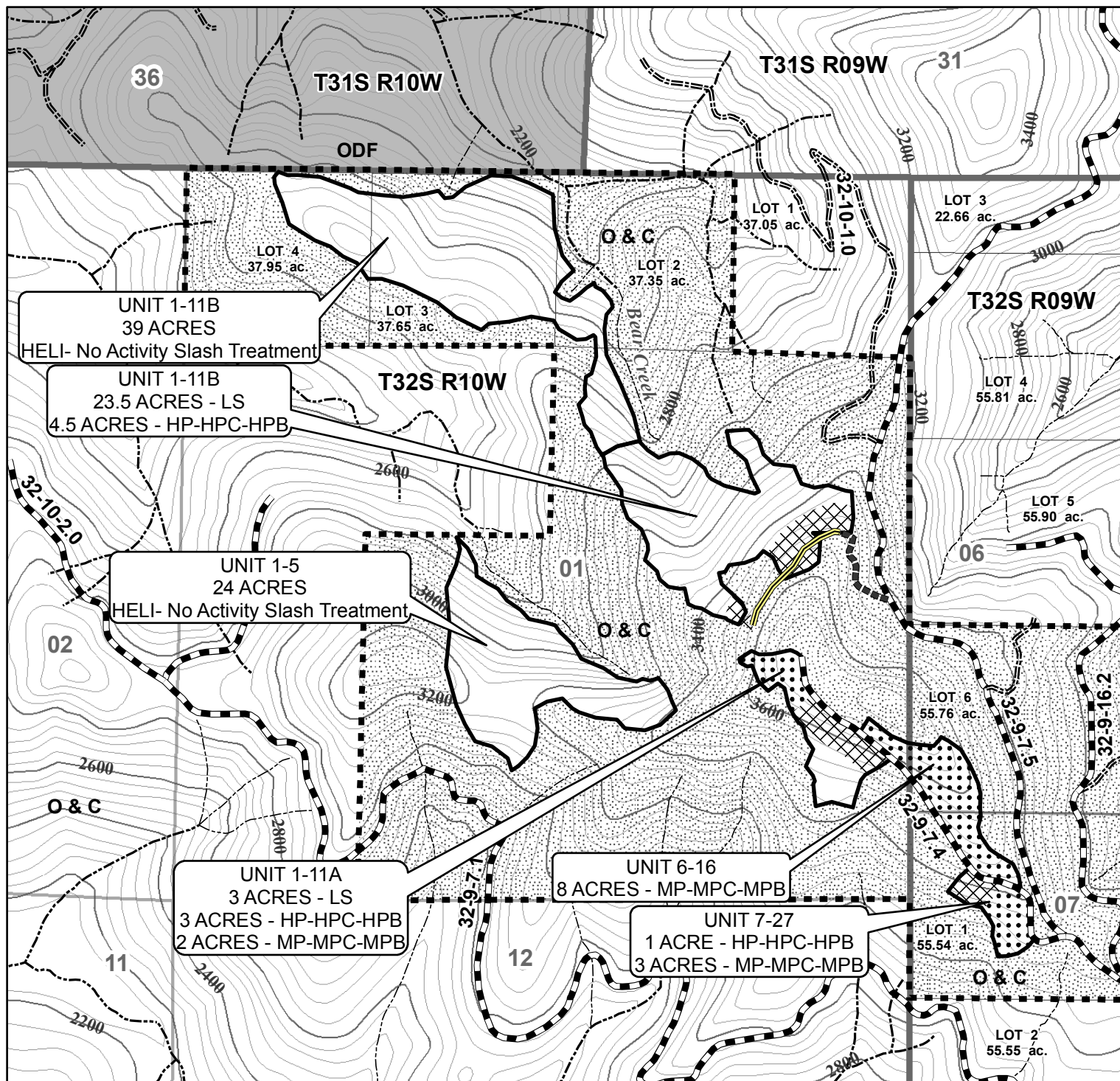
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LEGEND

Oh Henry Timber Sale Unit
Slash Disposal Treatment

- HP Hand Pile 100'
- HP Hand Pile 200'
- LS Lop and Scatter
- MP Mechanical Pile
- SS Selective Slash Hand Pile

- Temp. Construction
- Temp. Reconstruction
- Tractor Swing Route
- Roadside Maintenance Units

- Marbled Murrelet Seasonal Restriction Line

- Designated Skid Trail

- Designated_Landing

- Seep

Road

- Paved
- Rocked
- Natural Surface

- Gate
- Intermediate 40-ft contour
- Index 200-ft contour

Streams

- Perennial
- Intermittant

- Township and Range
- Sections
- Lots
- Contract Area Boundary
- Reserve Area

Ownership

- Bureau of Land Management

- O & C B L M O&C

- PD Public Domain Lands

- Non-Federal

- ODF Oregon Department of Forestry

- P V T Private

SUMMARY

NO TREATMENT	NO TREATMENT (UNITS 1-5 & HELICOPTER PORTION OF 1-11B)	63.00 ACRES
LS	LOP AND SCATTER (UNITS 1-11A, 1-11B, 2-1B, 3-1, 3-5, 3-8, 3-8A, 3-12, 3-18, 7-5, 7-28, 8-1, 8-8, 9-5A, 9-5B, 10-2, 10-4A, 10-5, 15-11B, 16-2, 18-7, 27-34, 33-1, 33-18, 33-28, 35-4)	283.75 ACRES
MP-MPC-MPB	MACHINE PILE-MACHINE PILE COVER-MACHINE PILE BURN (UNITS 1-11A, 2-1, 2-1B, 3-1, 3-3, 3-4A, 3-4B, 6-16, 7-27, 8-1, 8-7, 8-7A, 8-36, 9-5, 9-5C, 9-13, 18-7, 27-8, 33-1, 35-4, 35-8, 31-9-35.1, 32-9-3.0, 32-9-16.1, 32-9-16.2 AND LANDING PILES IN ALL UNITS)	236.25 ACRES
	SELECTIVE SLASHING-HAND PILE-HAND PILE COVER-HAND PILE BURN (UNITS 2-2, 10-2B)	13.0 ACRES
HP-HPC-HPB	HAND PILE-HAND PILE COVER-HAND PILE BURN (UNITS 3-12A, 10-4B)	2.00 ACRES
HP-HPC-HPB	HAND PILE-HAND PILE COVER-HAND PILE BURN 100 FEET FROM ROADS (UNIT 2-1B)	2.25 ACRES
HP-HPC-HPB	HAND PILE-HAND PILE COVER-HAND PILE BURN 200 FEET FROM ROADS (UNITS 1-11B, 3-1, 3-5, 3-8A, 3-12, 3-18, 7-27, 8-36, 9-5B, 9-13, 10-2, 10-4A, 10-5, 16-2, 35-4)	54.50 ACRES
HP-HPC-HPB	HAND PILE-HAND PILE COVER-HAND PILE BURN 100 FEET & 200 FEET FROM ROADS (UNITS 3-8, 8-1, 8-8, 15-11B, 18-7)	21.75 ACRES
	TOTAL TIMBER SALE UNIT AREA	708 ACRES
	TOTAL SLASH DISPOSAL TREATMENT AREA	671.25 ACRES
	RESERVE AREA	3365.93 ACRES
	TOTAL CONTRACT AREA	4073.93 ACRES

LEGEND

UNIT	SLASH DISPOSAL TREATMENT ACRES	SLASH DISPOSAL TREATMENT RX	HAND PILE WIDTH FROM ROAD
1-5	0	NO TREATMENT	N/A
1-11A	8	LS/HP-HPC-HPB/MP-MPC-MPB	200 FEET
1-11B	28	LS/HP-HPC-HPB/NO TREATMENT	200 FEET
2-1	3	MP-MPC-MPB	N/A
2-1B	35	LS/HP-HPC-HPB/MP-MPC-MPB	100 FEET
2-2	8	SS-HP-HPC-HPB	WHOLE UNIT
3-1	41	LS/HP-HPC-HPB/MP-MPC-MPB	200 FEET
3-3	13	MP-MPC-MPB	N/A
3-4A	11	MP-MPC-MPB	N/A
3-4B	5	MP-MPC-MPB	N/A
3-5	26	LS/HP-HPC-HPB	200 FEET
3-8	17	LS/HP-HPC-HPB	100 & 200 FEET
3-8A	4	LS/HP-HPC-HPB	200 FEET
3-12	25	LS-HP-HPC-HPB	200 FEET
3-12A	1	HP-HPC-HPB	WHOLE UNIT
3-18	6	LS/HP-HPC-HPB	200 FEET
6-16	8	MP-MPC-MPB	N/A
7-5	3	LS	N/A
7-27	4	HP-HPC-HPB/MP-MPC-MPB	200 FEET
7-28	6	LS	N/A
8-1	48	LS/HP-HPC-HPB/MP-MPC-MPB	100 & 200 FEET
8-7	16	MP-MPC-MPB	N/A
8-7A	10	MP-MPC-MPB	N/A
8-8	9	LS/HP-HPC-HPB	100 & 200 FEET
8-36	9	HP-HPC-HPB/MP-MPC-MPB	200 FEET
9-5	7	MP-MPC-MPB	N/A
9-5A	6	LS	N/A
9-5B	7	LS/HP-HPC-HPB	200 FEET
9-5C	5	MP-MPC-MPB	N/A
9-13	24	HP-HPC-HPB/MP-MPC-MPB	200 FEET

LEGEND

UNIT	SLASH DISPOSAL TREATMENT ACRES	SLASH DISPOSAL TREATMENT RX	HAND PILE WIDTH FROM ROAD
10-2	35	LS/HP-HPC-HPB	200 FEET
10-2B	5	SS-HP-HPC-HPB	WHOLE UNIT
10-4A	4	LS/HP-HPC-BHP	200 FEET
10-4B	1	HP-HPC-HPB	WHOLE UNIT
10-5	19	LS/HP-HPC-HPB	200 FEET
15-11B	5	LS/HP-HPC-HPB	100 & 200 FEET
16-2	13	LS/HP-HPC-HPB	200 FEET
18-7	45	LS/HP-HPC-HPB/MP-MPC-MPB	100 & 200 FEET
27-8	19	MP-MPC-MPB	N/A
27-34	5	LS	N/A
33-1	25	LS/MP-MPC-MPB	N/A
33-18	3	LS	N/A
33-28	8	LS	N/A
35-4	22	LS/HP-HPC-HPB/MP-MPC-MPB	200 FEET
35-8	11	MP-MPC-MPB	N/A
31-9-35.1	1	MP-MPC-MPB	N/A
32-9-3.0	2	MP-MPC-MPB	N/A
32-9-16.1	2	MP-MPC-MPB	N/A
32-9-16.2	3	MP-MPC-MPB	N/A
TOTAL	621		

* BOUNDARIES OF HARVEST UNITS ARE POSTED AND PAINTED IN ORANGE

**MACHINE PILE, MACHINE PILE COVER, MACHINE PILE BURN ALL LANDINGS IN ALL UNITS IS REQUIRED BUT NOT COMPUTED IN SLASH DISPOSAL ACRES & NOT LISTED IN TREATMENT RX TABLE

CT = COMMERCIAL THIN

DM = DENSITY MANAGEMENT

GB = GROUND BASE HARVEST & YARD

C = CABLE YARD

H = HELICOPTER YARD

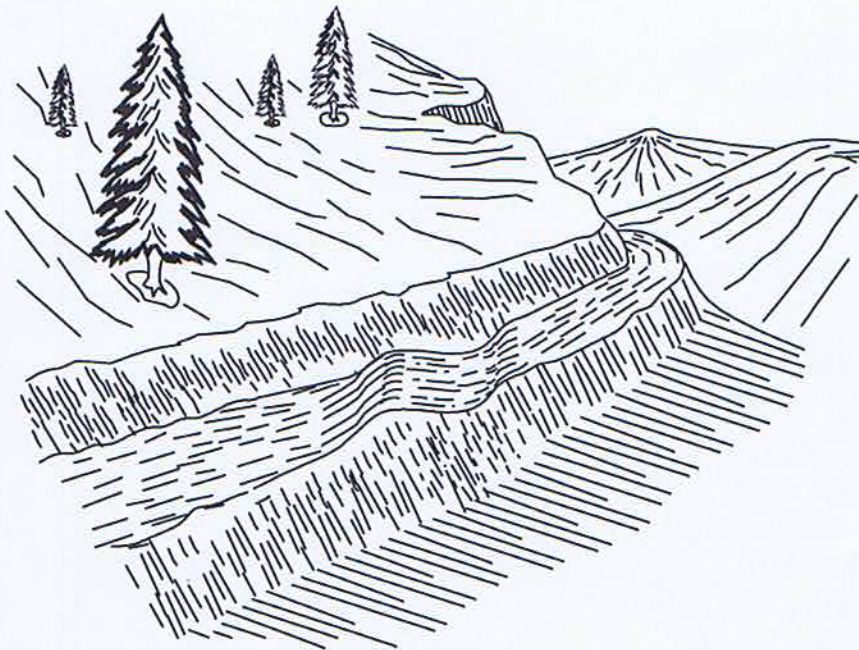
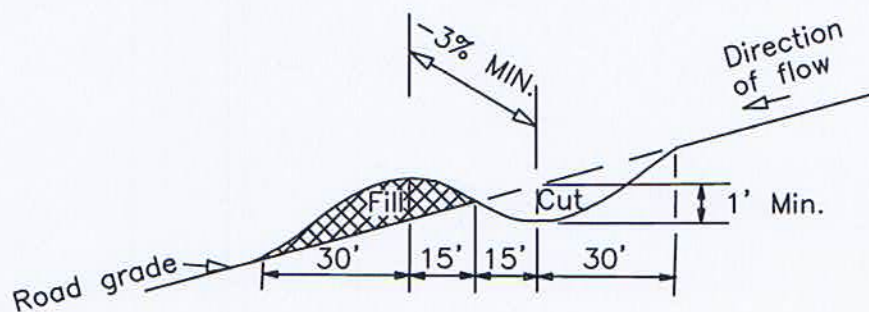
LS = LOP AND SCATTER

SS = SELECTIVE SLASHING

HP-HPC-HPB = HAND PILE, HAND PILE COVER, HAND PILE BURN

MP-MPC-MPB = MACHINE PILE, MACHINE PILE COVER, MACHINE PILE BURN

N/A = NOT APPLICABLE

WATER BAR

1. WATER BARS SHALL BE CONSTRUCTED AS SHOWN ABOVE.
2. EXACT LOCATION WILL BE FLAGGED BY THE AUTHORIZED OFFICER PRIOR TO CONSTRUCTION.
3. ALL WATER BARS SHALL BE SKEWED 30 DEGREES.
4. THE LENGTH SHALL BE SUFFICIENT TO EXTEND FROM THE CUT BANK TO THE FILL SLOPE.



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

Timber Appraisal

Sale Name: Oh Henry	Sale Date: Thursday, September 14, 2017
BLM District: Medford DO	Unit of Measure: 16' MBF
Contract #: ORM07-TS-2017.0002	Contract Term: 36 months
Sale Type: Advertised	Contract Mechanism: 5450-26

Sale of Timber and other Wood Products - Scale Sale

Content

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

Prepared By: Cannon, Grant P
Approved By: Rentz, George C

Legal Description of Contract Area

Land Status	County	Township	Range	Section	Subdivision	Meridian
O&C	Douglas	31S	9W	27	W1/2SW1/4, SE1/4SW1/4	Willamette
O&C	Douglas	31S	9W	33	E1/2NE1/4, E1/2SE1/4	Willamette
O&C	Douglas	31S	9W	35	W1/2NW1/4, SW1/4SW1/4	Willamette
O&C	Douglas	32S	9W	2	LOT 2,3,4 SW1/4NE1/4, S1/2NW1/4, N1/2SW1/4, SE1/4SW1/4, W1/2SE1/4	Willamette
O&C	Douglas	32S	9W	3	LOT 1,2,3,4 SW1/4NE1/4, S1/2NW1/4, NE1/4SW1/4, S1/2SW1/2, SE1/4	Willamette
O&C	Douglas	32S	9W	5	S1/2SW1/4, S1/2SE1/4	Willamette
O&C	Douglas	32S	9W	6	LOT 6	Willamette
O&C	Douglas	32S	9W	7	LOT 1,2 W1/2NE1/4, SE1/4NE1/4, NE1/4SE1/4, S1/2SE1/4	Willamette
O&C	Douglas	32S	9W	8	NE1/4, NE1/4NW1/4, SW1/4NW1/4, S1/2	Willamette
O&C	Douglas	32S	9W	9	W1/2, SE1/4	Willamette
O&C	Douglas	32S	9W	10	N1/2NE1/4, SW1/4NE1/4, NE1/4NW1/4, S1/2NW1/4, N1/2SW1/4, SW1/4SW1/4	Willamette
O&C	Douglas	32S	9W	15	W1/2NW1/4, NW1/4SW1/4	Willamette
O&C	Douglas	32S	9W	16	NE1/4NW1/4	Willamette
O&C	Douglas	32S	9W	18	NE1/4	Willamette
O&C	Douglas	32S	10W	1	LOT 2,3,4 S1/2NE1/4, E1/2SW1/4, SE1/4	Willamette
O&C	Douglas	32S	9W	17	NW1/4NW1/4	Willamette

Species Totals

Species	Net	Gross Merch	Gross	# of Merch Logs	# of Cull Logs	# of Trees
Douglas Fir	8,048.0	8,637.0	8,741.0	164,751	3,698	48,753
Western Hemlock	95.0	112.0	173.0	4,119	1,065	2,227
Sugar Pine	6.0	7.0	7.0	75	9	18
Incense-cedar	1.0	1.0	1.0	14	0	13
Totals	8,150.0	8,757.0	8,922.0	168,959	4,772	51,011

Cutting Area Acres

Regeneration Harvest Acres	Partial Cut Acres	Right of Way Acres	Total Acres	Net Volume per Acre
0.0	676.0	32.0	708.0	11.5

Logging Costs

Stump to Truck	\$1,749,294.69
Transportation	\$461,406.33
Road Construction	\$144,383.80
Maintenance/Rockwear	\$181,815.57
Road Use	\$2,500.00
Other Allowances	\$210,559.51
Total:	\$2,749,959.90
Total Logging Cost per MBF:	\$337.42

Utilization Centers

Location	Distance	% of Net Volume
Glendale, OR	32.0 miles	100 %

Profit & Risk

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

Tract Features

Quadratic Mean DBH	13.6 in
Average GM Log	52 bf
Average Volume per Acre	11.5 mbf
Recovery	91 %
<u>Net MBF volume:</u>	
Green	8,150.0 mbf
Salvage	0 mbf
Export	0 mbf
<u>Ground Base Logging:</u>	
Percent of Sale Volume	37 %
Average Yarding Slope	25 %
Average Yarding Distance	400 ft
<u>Cable Logging:</u>	
Percent of Sale Volume	58 %
Average Yarding Slope	55 %
Average Yarding Distance	400 ft
<u>Aerial Logging:</u>	
Percent of Sale Volume	5 %
Average Yarding Slope	60 %
Average Yarding Distance	3471 ft

Cruise

Cruise Completed	July 2017
Cruised By	Caulfield, Cannon, Worman, Parks, Darner, Franks, Kehoe, Coppersmith
Cruise Method	
PCMTRE, 40BAF, Strata 1 units - 60% Canopy NRF, Strata 2 units - 40% Canopy Dispersal, Strata 3 units - NSO NRF Downgrade. 3P, Strata 4 - All Douglas fir in roadside and helicopter units. BLM100%, Strata 5 - All other species in roadside and helicopter units.	

Stumpage Computation

Species	# of Trees	Net Volume	Pond Value	(-) Profit & Risk	(-) Logging Costs	(+) Marginal Log Value	Appraised Price/MBF	Appraised Value
Douglas Fir	48,753	8,048.0	\$617.94	\$74.15	\$337.42	\$0.91	\$207.30	\$1,668,350.40
Western Hemlock	2,227	95.0	\$370.10	\$44.41	\$337.42	\$0.00	\$37.10 *	\$3,524.50
Sugar Pine	18	6.0	\$311.74	\$37.41	\$337.42	\$0.00	\$31.20 *	\$187.20
Incense-cedar	13	1.0	\$568.80	\$68.26	\$337.42	\$0.00	\$163.10	\$163.10
Totals	51,011	8,150.0						\$1,672,225.20

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

Other Wood Products

Product	Unit of Measure	# of Units	\$/Unit	Appraised Value
Biomass	Green Tons	1	\$0.01	\$0.01
Totals				\$0.01

Total Appraised Value: \$1,672,225.21

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			7.0 %	40.0 %	45.0 %	8.0 %	

Species	No. 1 Sawmill	No. 2 Sawmill	No. 3 Sawmill	No. 4 Sawmill	No. 5 Sawmill	No. 6 Sawmill	Camp Run
Sugar Pine				65.0 %	34.0 %	1.0 %	

Species	Peeler	No. 1 Sawmill	Special Mill	No. 2 Sawmill	No. 3 Sawmill	No. 4 Sawmill	Camp Run
Western Hemlock				1.0 %	74.0 %	25.0 %	

Comments: 32' volume changed to "fix" log ratio

Species	No. 1 Sawmill	No. 2 Sawmill	No. 3 Sawmill	No. 4 Sawmill	No. 5 Sawmill	No. 6 Sawmill	Camp Run
Incense-cedar					31.0 %	69.0 %	

Marginal Log Volume By Grade

Species	Utility Cull	Peeler Cull
Douglas Fir	0	52

Oh Henry**Unit Summary****ORM07-TS-2017.0002****Unit: 1-5**

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	83.0	88.0	88.0	417
Western Hemlock	2.0	2.0	2.0	10
Sugar Pine	1.0	1.0	1.0	2
Totals:	86.0	91.0	91.0	429

Net Volume/Acre: 3.6 MBF

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

Unit: 1-11A

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	77.0	83.0	84.0	513
Western Hemlock	1.0	2.0	2.0	37
Totals:	78.0	85.0	86.0	550

Net Volume/Acre: 9.8 MBF

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

Unit: 1-11B

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	271.0	290.0	292.0	1,797
Western Hemlock	5.0	6.0	6.0	131
Totals:	276.0	296.0	298.0	1,928

Net Volume/Acre: 9.9 MBF

Regeneration Harvest	0.0
Partial Cut	28.0
Right of Way	0.0
Total Acres:	28.0

Unit: 1-11BH

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	235.0	249.0	249.0	1,370
Sugar Pine	5.0	6.0	6.0	16
Western Hemlock	1.0	1.0	1.0	6
Totals:	241.0	256.0	256.0	1,392

Net Volume/Acre: 6.2 MBF

Regeneration Harvest	0.0
Partial Cut	39.0
Right of Way	0.0
Total Acres:	39.0

Unit: 2-1

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	29.0	31.0	31.0	193
Western Hemlock	1.0	1.0	1.0	14
Totals:	30.0	32.0	32.0	207

Unit: 2-1B

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	339.0	362.0	365.0	2,246
Western Hemlock	6.0	7.0	7.0	164
Totals:	345.0	369.0	372.0	2,410

Unit: 2-2

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	77.0	83.0	84.0	513
Western Hemlock	1.0	2.0	2.0	37
Totals:	78.0	85.0	86.0	550

Unit: 3-1

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	397.0	424.0	428.0	2,631
Western Hemlock	7.0	8.0	8.0	192
Totals:	404.0	432.0	436.0	2,823

Unit: 3-3

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	126.0	135.0	136.0	834
Western Hemlock	2.0	3.0	3.0	61
Totals:	128.0	138.0	139.0	895

Net Volume/Acre: 10.0 MBF

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

Net Volume/Acre: 9.9 MBF

Regeneration Harvest	0.0
Partial Cut	35.0
Right of Way	0.0
Total Acres:	35.0

Net Volume/Acre: 9.8 MBF

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

Net Volume/Acre: 9.9 MBF

Regeneration Harvest	0.0
Partial Cut	41.0
Right of Way	0.0
Total Acres:	41.0

Net Volume/Acre: 9.8 MBF

Regeneration Harvest	0.0
Partial Cut	13.0
Right of Way	0.0
Total Acres:	13.0

Unit: 3-4A

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	117.0	127.0	129.0	1,155
Totals:	117.0	127.0	129.0	1,155

Net Volume/Acre: 10.6 MBF

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

Unit: 3-4B

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	53.0	58.0	59.0	525
Totals:	53.0	58.0	59.0	525

Net Volume/Acre: 10.6 MBF

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

Unit: 3-5

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	277.0	299.0	304.0	2,730
Western Hemlock	1.0	1.0	9.0	46
Totals:	278.0	300.0	313.0	2,776

Net Volume/Acre: 10.7 MBF

Regeneration Harvest	0.0
Partial Cut	26.0
Right of Way	0.0
Total Acres:	26.0

Unit: 3-8

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	181.0	196.0	199.0	1,785
Totals:	181.0	196.0	199.0	1,785

Net Volume/Acre: 10.6 MBF

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

Unit: 3-8A

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	43.0	46.0	47.0	420
Totals:	43.0	46.0	47.0	420

Net Volume/Acre: 10.8 MBF

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

Unit: 3-12

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	242.0	259.0	261.0	1,604
Western Hemlock	4.0	5.0	5.0	117
Totals:	246.0	264.0	266.0	1,721

Unit: 3-12A

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	11.0	12.0	12.0	105
Totals:	11.0	12.0	12.0	105

Unit: 3-18

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	58.0	62.0	63.0	385
Western Hemlock	1.0	1.0	1.0	28
Totals:	59.0	63.0	64.0	413

Unit: 3.0

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	66.0	70.0	70.0	570
Incense-cedar	1.0	1.0	1.0	13
Totals:	67.0	71.0	71.0	583

Unit: 6-16

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	77.0	83.0	84.0	513
Western Hemlock	1.0	2.0	2.0	37
Totals:	78.0	85.0	86.0	550

Net Volume/Acre: 9.8 MBF

Regeneration Harvest	0.0
Partial Cut	25.0
Right of Way	0.0
Total Acres:	25.0

Net Volume/Acre: 11.0 MBF

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

Net Volume/Acre: 9.8 MBF

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

Net Volume/Acre: 7.4 MBF

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

Net Volume/Acre: 9.8 MBF

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

Unit: 7-5

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	29.0	31.0	31.0	193
Western Hemlock	1.0	1.0	1.0	14
Totals:	30.0	32.0	32.0	207

Unit: 7-27

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	43.0	46.0	47.0	420
Totals:	43.0	46.0	47.0	420

Unit: 7-28

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	64.0	69.0	70.0	630
Totals:	64.0	69.0	70.0	630

Unit: 8-1

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	820.0	875.0	892.0	2,256
Western Hemlock	15.0	15.0	50.0	406
Totals:	835.0	890.0	942.0	2,662

Unit: 8-7

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	171.0	184.0	187.0	1,680
Totals:	171.0	184.0	187.0	1,680

Net Volume/Acre: 10.0 MBF

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

Net Volume/Acre: 10.8 MBF

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

Net Volume/Acre: 10.7 MBF

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

Net Volume/Acre: 17.4 MBF

Regeneration Harvest	0.0
Partial Cut	48.0
Right of Way	0.0
Total Acres:	48.0

Net Volume/Acre: 10.7 MBF

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

Unit: 8-7A

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	171.0	184.0	186.0	470
Western Hemlock	3.0	3.0	3.0	43
Totals:	174.0	187.0	189.0	513

Unit: 8-8

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	96.0	104.0	105.0	945
Totals:	96.0	104.0	105.0	945

Unit: 8-36

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	96.0	104.0	105.0	945
Totals:	96.0	104.0	105.0	945

Unit: 9-5

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	120.0	129.0	130.0	329
Western Hemlock	2.0	2.0	2.0	30
Totals:	122.0	131.0	132.0	359

Unit: 9-5A

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	103.0	110.0	112.0	282
Western Hemlock	2.0	2.0	2.0	26
Totals:	105.0	112.0	114.0	308

Net Volume/Acre: 17.4 MBF

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

Net Volume/Acre: 10.7 MBF

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

Net Volume/Acre: 10.7 MBF

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

Net Volume/Acre: 17.4 MBF

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

Net Volume/Acre: 17.5 MBF

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

Unit: 9-5B

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	75.0	81.0	82.0	735
Totals:	75.0	81.0	82.0	735

Net Volume/Acre: 10.7 MBF

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

Unit: 9-5C

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	53.0	58.0	59.0	525
Totals:	53.0	58.0	59.0	525

Net Volume/Acre: 10.6 MBF

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

Unit: 9-13

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	256.0	276.0	281.0	2,520
Western Hemlock	1.0	1.0	8.0	42
Totals:	257.0	277.0	289.0	2,562

Net Volume/Acre: 10.7 MBF

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

Unit: 10-2

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	599.0	643.0	652.0	1,644
Western Hemlock	9.0	11.0	11.0	149
Totals:	608.0	654.0	663.0	1,793

Net Volume/Acre: 17.4 MBF

Regeneration Harvest	0.0
Partial Cut	35.0
Right of Way	0.0
Total Acres:	35.0

Unit: 10-2B

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	86.0	92.0	93.0	235
Western Hemlock	1.0	2.0	2.0	21
Totals:	87.0	94.0	95.0	256

Net Volume/Acre: 17.4 MBF

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

Unit: 10-4A

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	68.0	74.0	74.0	188
Western Hemlock	1.0	1.0	1.0	17
Totals:	69.0	75.0	75.0	205

Unit: 10-4B

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	17.0	18.0	19.0	47
Totals:	17.0	18.0	19.0	47

Unit: 10-5

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	184.0	197.0	198.0	1,219
Western Hemlock	3.0	4.0	4.0	89
Totals:	187.0	201.0	202.0	1,308

Unit: 15-11B

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	53.0	58.0	59.0	525
Totals:	53.0	58.0	59.0	525

Unit: 16-2

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	222.0	239.0	242.0	611
Western Hemlock	3.0	4.0	4.0	55
Totals:	225.0	243.0	246.0	666

Net Volume/Acre: 17.3 MBF

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

Net Volume/Acre: 17.0 MBF

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

Net Volume/Acre: 9.8 MBF

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

Net Volume/Acre: 10.6 MBF

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

Net Volume/Acre: 17.3 MBF

Regeneration Harvest	0.0
Partial Cut	13.0
Right of Way	0.0
Total Acres:	13.0

Unit: 16.1

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	84.0	89.0	89.0	650
Totals:	84.0	89.0	89.0	650

Net Volume/Acre: 10.5 MBF

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

Unit: 16.2

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	117.0	124.0	124.0	836
Totals:	117.0	124.0	124.0	836

Net Volume/Acre: 11.7 MBF

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

Unit: 18-7

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	770.0	827.0	838.0	2,114
Western Hemlock	12.0	14.0	14.0	192
Totals:	782.0	841.0	852.0	2,306

Net Volume/Acre: 17.4 MBF

Regeneration Harvest	0.0
Partial Cut	45.0
Right of Way	0.0
Total Acres:	45.0

Unit: 27-8

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	203.0	219.0	222.0	1,995
Western Hemlock	1.0	1.0	6.0	33
Totals:	204.0	220.0	228.0	2,028

Net Volume/Acre: 10.7 MBF

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

Unit: 27-34

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	48.0	52.0	52.0	321
Western Hemlock	1.0	1.0	1.0	23
Totals:	49.0	53.0	53.0	344

Net Volume/Acre: 9.8 MBF

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

Unit: 33-1

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	242.0	259.0	261.0	1,604
Western Hemlock	4.0	5.0	5.0	117
Totals:	246.0	264.0	266.0	1,721

Unit: 33-18

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	29.0	31.0	31.0	193
Western Hemlock	1.0	1.0	1.0	14
Totals:	30.0	32.0	32.0	207

Unit: 33-28

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	77.0	83.0	84.0	513
Western Hemlock	1.0	2.0	2.0	37
Totals:	78.0	85.0	86.0	550

Unit: 35-4

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	235.0	253.0	258.0	2,310
Western Hemlock	1.0	1.0	7.0	39
Totals:	236.0	254.0	265.0	2,349

Unit: 35-8

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	117.0	127.0	129.0	1,155
Totals:	117.0	127.0	129.0	1,155

Net Volume/Acre: 9.8 MBF

Regeneration Harvest	0.0
Partial Cut	25.0
Right of Way	0.0
Total Acres:	25.0

Net Volume/Acre: 10.0 MBF

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

Net Volume/Acre: 9.8 MBF

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

Net Volume/Acre: 10.7 MBF

Regeneration Harvest	0.0
Partial Cut	22.0
Right of Way	0.0
Total Acres:	22.0

Net Volume/Acre: 10.6 MBF

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

Unit: 35.1

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	41.0	44.0	44.0	357
Totals:	41.0	44.0	44.0	357

Net Volume/Acre: 8.2 MBF

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

Total Stump To Truck	Net Volume	\$/MBF
\$1,749,294.69	8,150.0	\$214.64

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

Yarding System	Unit of Measure	# of Units of Measure	\$/Unit of Measure	Total Cost	Remarks
Helicopter	GM MBF	347.0	\$441.06	\$153,047.82	33 - 1/4 Acre group openings in units 1-5 and 1-11B
Tractor Swing	GM MBF	597.0	\$227.68	\$135,924.96	Units 18-7, 2-1B & 16-2
Cable: Medium Yarder	GM MBF	4,433.0	\$201.67	\$894,003.11	
Track Skidder	GM MBF	3,380.0	\$156.26	\$528,158.80	
Subtotal				\$1,711,134.69	

Additional Costs

Item	Unit of Measure	# of Units of Measure	\$/Unit of Measure	Total Cost	Remarks
Deadman Anchor	Each	24.0	\$450.00	\$10,800.00	Some areas may be logged using yoder
Intermediate Support	Each	6.0	\$250.00	\$1,500.00	Int. supports over 30 feet high
Lift Tree	Each	32.0	\$150.00	\$4,800.00	Lift Trees over 30 feet high
Skid Construction	Hour	16.0	\$75.00	\$1,200.00	grubbing
Temp Route Construction	Hour	40.0	\$75.00	\$3,000.00	all temp spurs
Landing Construction	Hour	96.0	\$75.00	\$7,200.00	all
Subtotal				\$28,500.00	

Additional Moves

Equipment	Unit of Measure	# of Units of Measure	\$/Unit of Measure	Total Cost	Remarks
Cable: Medium Yarder	Hour	9.0	\$150.00	\$1,350.00	3 moves
Loader	Hour	18.0	\$150.00	\$2,700.00	2 loaders 3 moves each
Track Skidder	Hour	27.0	\$110.00	\$2,970.00	3 skidders 3 moves each
Track Skidder	Hour	6.0	\$110.00	\$660.00	Cable swing tractor 2 moves
Delimber	Hour	18.0	\$110.00	\$1,980.00	2 moves each
Subtotal				\$9,660.00	

Total	Net Volume	\$/MBF
\$461,406.33	8,150.0	\$56.61

Utilization Center	One Way Mileage	Description	Unit of Measure	# of Units	\$/Unit of Measure	Total Cost	% of Sale Volume
Glendale, OR	32.0	All Species	GM MBF	8,757.0	\$52.69	\$461,406.33	100 %

Engineering Allowances

Total	Net Volume	\$/MBF
\$328,699.37	8,150.0	\$40.33

Cost Item	Total Cost
Road Construction:	\$144,383.80
Road Maintenance/Rockwear:	\$181,815.57
Road Use Fees:	\$2,500.00

Total	Net Volume	\$/MBF
\$210,559.51	8,150.0	\$25.84

Environmental Protection

Cost item	Total Cost
Waterbar Corridors	\$640.00
Barricades - Temp Routes & Skids	\$1,800.00
Waterbar - Temp Routes	\$1,800.00
Equipment Washing - Small	\$900.00
Equipment Washing - Large	\$1,000.00
Seeding & Mulching - Landings & skids	\$11,100.00
Seeding & Mulching- Temp Routes	\$600.00
Ripping - Landings & skids	\$15,355.00
Ripping - Temp Routes	\$830.00
Subtotal	\$34,025.00

Logging

Cost item	Total Cost
Directional felling	\$13,121.50
Skid Location	\$729.20
Flaggers for 35-4	\$1,312.56
Subtotal	\$15,163.26

Miscellaneous

Cost item	Total Cost
Fuels Adjustment	\$25.05
Subtotal	\$25.05

Road Construction, Maintenance, Use, & Decommissioning

Cost item	Total Cost
Culvert Cleaning	\$640.00
Subtotal	\$640.00

Slash Disposal & Site Prep

Cost item	Total Cost
Machine Pile Burn and Mop-up	\$6,389.60
Lop and Scatter	\$11,915.40
Handpile Burn and Mop-up	\$4,242.00
Cover and Burn Landing Decks	\$3,259.20
Landing Clean Up	\$9,600.00
Slashing	\$3,900.00
Handpile and Cover	\$32,825.00
Machine Pile and Cover	\$88,575.00
Subtotal	\$160,706.20

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Version: 5.2.0.99
Updated: 6/14/2017

Summary of All Roads and Projects

T.S. Contract Name: Oh Henry TS Tract No: ORM07-TS-17-02 Sale Date: June 2017

Prepared by: C. Smith Ph: 5414716533 Print Date: 8/8/2017 9:32:08 AM

Construction: 0.00 sta

Improve: 0.00 sta Renov: 3331.69 sta Decom: 115.63 sta Temp: 0.00 sta

200 Clearing and Grubbing: 13.3 acres	\$27,100.23
300 Excavation:	\$4,739.87
Haul < 500 ft: 0 sta-yds	
Haul > 500 ft: 0 yd-mi	
400 Drainage:	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	\$36,522.49
Blading 16.18 mi	
700-1200 Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 4.6 acres	\$2,247.77
Includes Small Quantity Factor of 1.33	
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing:	\$33,877.80
Manual Brushing: 61.8 acres	
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$34,557.64
Mobilization: Const. \$5,338.00 Surf. \$0.00.....	\$5,338.00
Quarry Development:	\$0.00
Total: 8,150 mbf @ \$17.716/mbf = \$144,383.80	

Notes:

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

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Oh Henry TS Sale Date: Sept 2017

Road Number: 30-6-32.0

Road Name:

Road Renovation: 0.29 mi 20 ft Subgrade 0 ft ditch

200 Clearing and Grubbing: acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	\$0.00
700-1200 Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing (Manual):0.3 acres	\$99.50
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$3.82 Surf. \$0.00.....	\$3.82
Quarry Development:	\$0.00
Total:	\$103.32

Notes:

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

Road Construction Worksheet

Road Number: 30-6-32.0

Road Name:

Section 200 Clearing and Grubbing:	Subtotal:	\$0.00
Section 300 Excavation:	Subtotal:	\$0.00
Section 400 Drainage:	Subtotal:	\$0.00
Section 500 Renovation:	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:		

	Subtotal:	\$0.00
Section 1900 Cattleguards:		
	Subtotal:	\$0.00
Section 2100 Roadside Brushing:		
Manual Brushing		
Brushing width Left: 4ft. Right: 4ft.		
RoadSide Brushing Light: \$331.68/acre x 0.30 acres = \$99.50		
	Subtotal:	\$99.50
Section 2300 Engineering:		
	Subtotal:	\$0.00
Section 2400 Minor Concrete:		
	Subtotal:	\$0.00
Section 2500 Gabions:		
	Subtotal:	\$0.00
Section 8000 Miscellaneous:		
	Subtotal:	\$0.00
Mobilization:		
Construction - 0.07% of total Costs = \$3.82		
surfacing = 0% \$0.00		
	Subtotal:	\$3.82
Quarry Development:		
	Subtotal:	\$0.00
	Total:	\$103.32

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Oh Henry TS	Sale Date: Sept 2017	
Road Number: 31-9-27.1A	Road Name: Panther Crk Sale	
Road Renovation: 0.57 mi	16 ft Subgrade 2 ft ditch	
200 Clearing and Grubbing: acres		\$0.00
300 Excavation:		\$0.00
400 Drainage:		\$0.00
Culvert: 0 lf		
DownSpout: 0 lf		
PolyPipe: 0 lf		
500 Renovation:		\$208.52
700-1200 Surfacing:		\$0.00
1300 Geotextiles:		\$0.00
1400 Slope Protection:		\$0.00
1800 Soil Stabilization: 0.0 acres		\$0.00
1900 Cattleguards:		\$0.00
2100 RoadSide Brushing (Manual):0.6 acres		\$398.02
2300 Engineering: 0.00 sta.		\$0.00
2400 Minor Concrete:		\$0.00
2500 Gabions:		\$0.00
8000 Miscellaneous:		\$0.00
Mobilization: Const. \$23.28 Surf. \$0.00.....		\$23.28
Quarry Development:		\$0.00
	Total:	\$629.82

Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are loose cubic yards.

Road Construction Worksheet

Road Number: 31-9-27.1A

Road Name: Panther Crk Sale

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Clean Culverts: \$365.82/mi x 0.57 mi = \$208.52

Subtotal: \$208.52

Section 700-1200 Surfacing:
Surfacing:

Subtotal: \$0.00

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Subtotal: \$0.00

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

Manual Brushing

RoadSide Brushing Medium: \$663.36/acre x 0.60 acres = \$398.02

Subtotal: \$398.02

Section 2300 Engineering:

Subtotal: \$0.00

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Subtotal: \$0.00

Mobilization:

Construction - 0.44% of total Costs = \$23.28

surfacing = 0% \$0.00

Subtotal: \$23.28

Quarry Development:

Subtotal: \$0.00

Total: \$629.82

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Oh Henry TS

Sale Date: Sept 2017

Road Number: 31-9-27.1B

Road Name: Panther Crk Sale

Road Renovation: 0.55 mi 16 ft Subgrade 2 ft ditch

200 Clearing and Grubbing: acres \$0.00

300 Excavation: \$0.00

400 Drainage: \$0.00

Culvert: 0 lf
DownSpout: 0 lf
PolyPipe: 0 lf

500 Renovation:	\$201.20
700-1200 Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing (Manual):0.5 acres	\$331.68
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$20.46 Surf. \$0.00.....	\$20.46
Quarry Development:	\$0.00
Total:	\$553.34

Notes:

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

Road Construction Worksheet

Road Number: 31-9-27.1B Road Name: Panther Crk Sale

Section 200 Clearing and Grubbing:	Subtotal:	\$0.00
Section 300 Excavation:	Subtotal:	\$0.00
Section 400 Drainage:	Subtotal:	\$0.00
Section 500 Renovation: Clean Culverts: \$365.82/mi x 0.55 mi = \$201.20	Subtotal:	\$201.20
Section 700-1200 Surfacing: Surfacing:	Subtotal:	\$0.00
Section 1300 Geotextiles:	Subtotal:	\$0.00
Section 1400 Slope Protection:	Subtotal:	\$0.00
Section 1800 Soil Stabilization:	Subtotal:	\$0.00
Section 1900 Cattleguards:	Subtotal:	\$0.00
Section 2100 Roadside Brushing: Manual Brushing RoadSide Brushing Medium: \$663.36/acre x 0.50 acres = \$331.68	Subtotal:	\$331.68
Section 2300 Engineering:	Subtotal:	\$0.00
Section 2400 Minor Concrete:		

	Subtotal:	\$0.00
Section 2500 Gabions:		
	Subtotal:	\$0.00
Section 8000 Miscellaneous:		
	Subtotal:	\$0.00
Mobilization:		
Construction - 0.38% of total Costs = \$20.46		
surfacing = 0% \$0.00		
	Subtotal:	\$20.46
Quarry Development:		
	Subtotal:	\$0.00
	Total:	\$553.34

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Oh Henry TS	Sale Date: Sept 2017	
Road Number: 31-9-27.4	Road Name: Panther Crk B Spur	
Road Renovation: 0.10 mi	14 ft Subgrade 2 ft ditch	
200 Clearing and Grubbing: acres		\$0.00
300 Excavation:		\$0.00
400 Drainage:		\$0.00
Culvert: 0 lf		
DownSpout: 0 lf		
PolyPipe: 0 lf		
500 Renovation:		\$106.03
Blading 0.10 mi		
700-1200 Surfacing:		\$0.00
1300 Geotextiles:		\$0.00
1400 Slope Protection:		\$0.00
1800 Soil Stabilization: 0.0 acres		\$0.00
1900 Cattleguards:		\$0.00
2100 RoadSide Brushing (Manual):0.1 acres		\$66.34
2300 Engineering: 0.00 sta.		\$0.00
2400 Minor Concrete:		\$0.00
2500 Gabions:		\$0.00
8000 Miscellaneous:		\$0.00
Mobilization: Const. \$6.62 Surf. \$0.00.....		\$6.62
Quarry Development:		\$0.00
	Total:	\$178.99

Notes:

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

Road Construction Worksheet

Road Number: 31-9-27.4 Road Name: Panther Crk B Spur

Section 200 Clearing and Grubbing:		
	Subtotal:	\$0.00
Section 300 Excavation:		
	Subtotal:	\$0.00

Section 400 Drainage:	Subtotal:	\$0.00
Section 500 Renovation:		
Blading: \$694.50/mi x 0.10 mi = \$69.45		
Clean Culverts: \$365.82/mi x 0.10 mi = \$36.58	Subtotal:	\$106.03
Section 700-1200 Surfacing:		
Surfacing:	Subtotal:	\$0.00
Section 1300 Geotextiles:	Subtotal:	\$0.00
Section 1400 Slope Protection:	Subtotal:	\$0.00
Section 1800 Soil Stabilization:	Subtotal:	\$0.00
Section 1900 Cattleguards:	Subtotal:	\$0.00
Section 2100 Roadside Brushing:		
Manual Brushing		
RoadSide Brushing Medium: \$663.36/acre x 0.10 acres = \$66.34	Subtotal:	\$66.34
Section 2300 Engineering:	Subtotal:	\$0.00
Section 2400 Minor Concrete:	Subtotal:	\$0.00
Section 2500 Gabions:	Subtotal:	\$0.00
Section 8000 Miscellaneous:	Subtotal:	\$0.00
Mobilization:		
Construction - 0.12% of total Costs = \$6.62		
surfacing = 0% \$0.00	Subtotal:	\$6.62
Quarry Development:	Subtotal:	\$0.00
	Total:	\$178.99

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Oh Henry TS	Sale Date: Sept 2017
Road Number: 31-9-34.0	Road Name: Walker Crk
Road Renovation: 0.37 mi	16 ft Subgrade 2 ft ditch
200 Clearing and Grubbing: acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	\$512.74
Blading 0.37 mi	
700-1200 Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00

1900 Cattleguards:	\$0.00
2100 RoadSide Brushing (Manual):0.4 acres	\$265.34
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$29.87 Surf. \$0.00.....	\$29.87
Quarry Development:	\$0.00
Total:	\$807.96

Notes:

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

Road Construction Worksheet

Road Number: 31-9-34.0 Road Name: Walker Crk

Section 200 Clearing and Grubbing:	Subtotal:	\$0.00
Section 300 Excavation:	Subtotal:	\$0.00
Section 400 Drainage:	Subtotal:	\$0.00
Section 500 Renovation: Blading: \$694.50/mi x 0.37 mi = \$256.97 Compaction: \$325.47/mi x 0.37 mi = \$120.42 Clean Culverts: \$365.82/mi x 0.37 mi = \$135.35	Subtotal:	\$512.74
Section 700-1200 Surfacing: Surfacing:	Subtotal:	\$0.00
Section 1300 Geotextiles:	Subtotal:	\$0.00
Section 1400 Slope Protection:	Subtotal:	\$0.00
Section 1800 Soil Stabilization:	Subtotal:	\$0.00
Section 1900 Cattleguards:	Subtotal:	\$0.00
Section 2100 Roadside Brushing: Manual Brushing RoadSide Brushing Medium: \$663.36/acre x 0.40 acres = \$265.34	Subtotal:	\$265.34
Section 2300 Engineering:	Subtotal:	\$0.00
Section 2400 Minor Concrete:	Subtotal:	\$0.00
Section 2500 Gabions:	Subtotal:	\$0.00
Section 8000 Miscellaneous:	Subtotal:	\$0.00
Mobilization: Construction - 0.56% of total Costs = \$29.87 surfacing = 0% \$0.00	Subtotal:	\$29.87

Quarry Development:

Subtotal: \$0.00

Total: \$807.96

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Oh Henry TS

Sale Date: Sept 2017

Road Number: 31-9-34.1A

Road Name: Long Finger

Road Renovation: 0.07 mi 15 ft Subgrade 2 ft ditch

200 Clearing and Grubbing: acres \$0.00

300 Excavation: \$0.00

400 Drainage: \$0.00

Culvert: 0 lf

DownSpout: 0 lf

PolyPipe: 0 lf

500 Renovation: \$97.01

Blading 0.07 mi

700-1200 Surfacing: \$0.00

1300 Geotextiles: \$0.00

1400 Slope Protection: \$0.00

1800 Soil Stabilization: 0.0 acres \$0.00

1900 Cattleguards: \$0.00

2100 RoadSide Brushing (Manual):0.1 acres \$66.34

2300 Engineering: 0.00 sta. \$0.00

2400 Minor Concrete: \$0.00

2500 Gabions: \$0.00

8000 Miscellaneous: \$0.00

Mobilization: Const. \$6.27 Surf. \$0.00..... \$6.27

Quarry Development: \$0.00

Total: \$169.61

Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are loose cubic yards.

Road Construction Worksheet

Road Number: 31-9-34.1A

Road Name: Long Finger

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Blading: \$694.50/mi x 0.07 mi = \$48.62

Compaction: \$325.47/mi x 0.07 mi = \$22.78

Clean Culverts: \$365.82/mi x 0.07 mi = \$25.61

Subtotal: \$97.01

Section 700-1200 Surfacing:

Surfacing:	Subtotal:	\$0.00
Section 1300 Geotextiles:	Subtotal:	\$0.00
Section 1400 Slope Protection:	Subtotal:	\$0.00
Section 1800 Soil Stabilization:	Subtotal:	\$0.00
Section 1900 Cattleguards:	Subtotal:	\$0.00
Section 2100 Roadside Brushing: Manual Brushing		
RoadSide Brushing Medium: \$663.36/acre x 0.10 acres = \$66.34	Subtotal:	\$66.34
Section 2300 Engineering:	Subtotal:	\$0.00
Section 2400 Minor Concrete:	Subtotal:	\$0.00
Section 2500 Gabions:	Subtotal:	\$0.00
Section 8000 Miscellaneous:	Subtotal:	\$0.00
Mobilization:		
Construction - 0.12% of total Costs = \$6.27		
surfacing = 0% \$0.00	Subtotal:	\$6.27
Quarry Development:	Subtotal:	\$0.00
	Total:	\$169.61

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Oh Henry TS	Sale Date: Sept 2017
Road Number: 31-9-34.1B	Road Name: Long Finger
Road Renovation: 1.04 mi	15 ft Subgrade 2 ft ditch
200 Clearing and Grubbing: acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	\$1,441.22
Blading 1.04 mi	
700-1200 Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing (Manual):1.0 acres	\$663.36
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00

8000 Miscellaneous:	\$0.00
Mobilization: Const. \$80.80 Surf. \$0.00.....	\$80.80
Quarry Development:	\$0.00
Total:	\$2,185.38

Notes:

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

Road Construction Worksheet

Road Number: 31-9-34.1B Road Name: Long Finger

Section 200 Clearing and Grubbing:	Subtotal:	\$0.00
Section 300 Excavation:	Subtotal:	\$0.00
Section 400 Drainage:	Subtotal:	\$0.00
Section 500 Renovation: Blading: \$694.50/mi x 1.04 mi = \$722.28 Compaction: \$325.47/mi x 1.04 mi = \$338.49 Clean Culverts: \$365.82/mi x 1.04 mi = \$380.45	Subtotal:	\$1,441.22
Section 700-1200 Surfacing: Surfacing:	Subtotal:	\$0.00
Section 1300 Geotextiles:	Subtotal:	\$0.00
Section 1400 Slope Protection:	Subtotal:	\$0.00
Section 1800 Soil Stabilization:	Subtotal:	\$0.00
Section 1900 Cattleguards:	Subtotal:	\$0.00
Section 2100 Roadside Brushing: Manual Brushing RoadSide Brushing Medium: \$663.36/acre x 1.00 acres = \$663.36	Subtotal:	\$663.36
Section 2300 Engineering:	Subtotal:	\$0.00
Section 2400 Minor Concrete:	Subtotal:	\$0.00
Section 2500 Gabions:	Subtotal:	\$0.00
Section 8000 Miscellaneous:	Subtotal:	\$0.00
Mobilization: Construction - 1.51% of total Costs = \$80.80 surfacing = 0% \$0.00	Subtotal:	\$80.80
Quarry Development:	Subtotal:	\$0.00
Total:		\$2,185.38

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Oh Henry TS	Sale Date: Sept 2017
Road Number: 31-9-35.0A	Road Name: Walker Prairie
Road Renovation: 0.15 mi	20 ft Subgrade 2 ft ditch
200 Clearing and Grubbing: acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	\$54.87
700-1200 Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing (Manual):1.0 acres	\$663.36
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$40.00
Mobilization: Const. \$29.11 Surf. \$0.00.....	\$29.11
Quarry Development:	\$0.00
	Total: \$787.34

Notes:

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

Road Construction Worksheet

Road Number: 31-9-35.0A	Road Name: Walker Prairie
Section 200 Clearing and Grubbing:	Subtotal: \$0.00
Section 300 Excavation:	Subtotal: \$0.00
Section 400 Drainage:	Subtotal: \$0.00
Section 500 Renovation: Clean Culverts: \$365.82/mi x 0.15 mi = \$54.87	Subtotal: \$54.87
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:	Subtotal: \$0.00
Section 1900 Cattleguards:	

	Subtotal:	\$0.00
Section 2100 Roadside Brushing:		
Manual Brushing		
RoadSide Brushing Medium: \$663.36/acre x 1.00 acres = \$663.36	Subtotal:	\$663.36
Section 2300 Engineering:		
	Subtotal:	\$0.00
Section 2400 Minor Concrete:		
	Subtotal:	\$0.00
Section 2500 Gabions:		
	Subtotal:	\$0.00
Section 8000 Miscellaneous:		
Sediment Reduction		
Sediment Filter 2 Ea x \$20.00/Ea = \$40.00	Subtotal:	\$40.00
Mobilization:		
Construction - 0.55% of total Costs = \$29.11		
surfacing = 0% \$0.00	Subtotal:	\$29.11
Quarry Development:		
	Subtotal:	\$0.00
	Total:	\$787.34

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Oh Henry TS	Sale Date: Sept 2017
Road Number: 31-9-35.0B	Road Name: WALKER PRAIRIE
Road Renovation: 0.78 mi 20 ft Subgrade 2 ft ditch	
200 Clearing and Grubbing: acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	\$285.34
700-1200 Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing (Manual):0.8 acres	\$530.69
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$160.00
Mobilization: Const. \$37.47 Surf. \$0.00.....	\$37.47
Quarry Development:	\$0.00
	Total: \$1,013.50

Notes:

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

Road Construction Worksheet

Road Number: 31-9-35.0B Road Name: WALKER PRAIRIE

Section 200 Clearing and Grubbing:	Subtotal:	\$0.00
Section 300 Excavation:	Subtotal:	\$0.00
Section 400 Drainage:	Subtotal:	\$0.00
Section 500 Renovation: Clean Culverts: \$365.82/mi x 0.78 mi = \$285.34	Subtotal:	\$285.34
Section 700-1200 Surfacing: Surfacing:	Subtotal:	\$0.00
Section 1300 Geotextiles:	Subtotal:	\$0.00
Section 1400 Slope Protection:	Subtotal:	\$0.00
Section 1800 Soil Stabilization:	Subtotal:	\$0.00
Section 1900 Cattleguards:	Subtotal:	\$0.00
Section 2100 Roadside Brushing: Manual Brushing RoadSide Brushing Medium: \$663.36/acre x 0.80 acres = \$530.69	Subtotal:	\$530.69
Section 2300 Engineering:	Subtotal:	\$0.00
Section 2400 Minor Concrete:	Subtotal:	\$0.00
Section 2500 Gabions:	Subtotal:	\$0.00
Section 8000 Miscellaneous: Sediment Reduction Sediment Filter 8 EA x \$20.00/EA = \$160.00	Subtotal:	\$160.00
Mobilization: Construction - 0.70% of total Costs = \$37.47 surfacing = 0% \$0.00	Subtotal:	\$37.47
Quarry Development:	Subtotal:	\$0.00
	Total:	\$1,013.50

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Oh Henry TS	Sale Date: Sept 2017
Road Number: 31-9-35.0C	Road Name: WALKER PRAIRIE
Road Renovation: 0.79 mi	20 ft Subgrade 2 ft ditch
200 Clearing and Grubbing: acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	

PolyPipe: 0 lf

500 Renovation:	\$289.00
700-1200 Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing (Manual):0.8 acres	\$530.69
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$160.00
Mobilization: Const. \$37.61 Surf. \$0.00.....	\$37.61
Quarry Development:	\$0.00
Total:	\$1,017.30

Notes:

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

Road Construction Worksheet

Road Number: 31-9-35.0C

Road Name: WALKER PRAIRIE

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Clean Culverts: \$365.82/mi x 0.79 mi = \$289.00

Subtotal: \$289.00

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:

Subtotal: \$0.00

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:
Manual Brushing

RoadSide Brushing Medium: \$663.36/acre x 0.80 acres = \$530.69

Subtotal: \$530.69

Section 2300 Engineering:

Subtotal: \$0.00

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:	Subtotal:	\$0.00
Section 8000 Miscellaneous:		
Sediment Reduction		
Sediment Filter 8 EA x \$20.00/EA = \$160.00	Subtotal:	\$160.00
Mobilization:		
Construction - 0.70% of total Costs = \$37.61		
surfacing = 0% \$0.00	Subtotal:	\$37.61
Quarry Development:	Subtotal:	\$0.00
	Total:	\$1,017.30

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Oh Henry TS	Sale Date: Sept 2017	
Road Number: 31-9-35.0D	Road Name: WALKER PRAIRIE	
Road Renovation: 0.13 mi	20 ft Subgrade 2 ft ditch	
200 Clearing and Grubbing: acres		\$0.00
300 Excavation:		\$0.00
400 Drainage:		\$0.00
Culvert: 0 lf		
DownSpout: 0 lf		
PolyPipe: 0 lf		
500 Renovation:		\$47.56
700-1200 Surfacing:		\$0.00
1300 Geotextiles:		\$0.00
1400 Slope Protection:		\$0.00
1800 Soil Stabilization: 0.0 acres		\$0.00
1900 Cattleguards:		\$0.00
2100 RoadSide Brushing (Manual):0.1 acres		\$66.34
2300 Engineering: 0.00 sta.		\$0.00
2400 Minor Concrete:		\$0.00
2500 Gabions:		\$0.00
8000 Miscellaneous:		\$20.00
Mobilization: Const. \$5.14 Surf. \$0.00.....		\$5.14
Quarry Development:		\$0.00
	Total:	\$139.03

Notes:

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

Road Construction Worksheet

Road Number: 31-9-35.0D	Road Name: WALKER PRAIRIE	
Section 200 Clearing and Grubbing:	Subtotal:	\$0.00
Section 300 Excavation:	Subtotal:	\$0.00

Section 400 Drainage:	Subtotal:	\$0.00
Section 500 Renovation: Clean Culverts: \$365.82/mi x 0.13 mi = \$47.56	Subtotal:	\$47.56
Section 700-1200 Surfacing: Surfacing:	Subtotal:	\$0.00
Section 1300 Geotextiles:	Subtotal:	\$0.00
Section 1400 Slope Protection:	Subtotal:	\$0.00
Section 1800 Soil Stabilization:	Subtotal:	\$0.00
Section 1900 Cattleguards:	Subtotal:	\$0.00
Section 2100 Roadside Brushing: Manual Brushing RoadSide Brushing Medium: \$663.36/acre x 0.10 acres = \$66.34	Subtotal:	\$66.34
Section 2300 Engineering:	Subtotal:	\$0.00
Section 2400 Minor Concrete:	Subtotal:	\$0.00
Section 2500 Gabions:	Subtotal:	\$0.00
Section 8000 Miscellaneous: Sediment Reduction Sediment Filter 1 EA x \$20.00/EA = \$20.00	Subtotal:	\$20.00
Mobilization: Construction - 0.10% of total Costs = \$5.14 surfacing = 0% \$0.00	Subtotal:	\$5.14
Quarry Development:	Subtotal:	\$0.00
	Total:	\$139.03

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Oh Henry TS	Sale Date: Sept 2017
Road Number: 31-9-35.0E	Road Name: WALKER PRAIRIE
Road Renovation: 0.48 mi	20 ft Subgrade 2 ft ditch
200 Clearing and Grubbing: acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	\$175.59
700-1200 Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00

1900 Cattleguards:	\$0.00
2100 RoadSide Brushing (Manual):0.5 acres	\$331.68
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$100.00
Mobilization: Const. \$23.31 Surf. \$0.00.....	\$23.31
Quarry Development:	\$0.00
Total:	\$630.59

Notes:

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

Road Construction Worksheet

Road Number: 31-9-35.0E Road Name: WALKER PRAIRIE

Section 200 Clearing and Grubbing:	Subtotal:	\$0.00
Section 300 Excavation:	Subtotal:	\$0.00
Section 400 Drainage:	Subtotal:	\$0.00
Section 500 Renovation: Clean Culverts: \$365.82/mi x 0.48 mi = \$175.59	Subtotal:	\$175.59
Section 700-1200 Surfacing: Surfacing:	Subtotal:	\$0.00
Section 1300 Geotextiles:	Subtotal:	\$0.00
Section 1400 Slope Protection:	Subtotal:	\$0.00
Section 1800 Soil Stabilization:	Subtotal:	\$0.00
Section 1900 Cattleguards:	Subtotal:	\$0.00
Section 2100 Roadside Brushing: Manual Brushing RoadSide Brushing Medium: \$663.36/acre x 0.50 acres = \$331.68	Subtotal:	\$331.68
Section 2300 Engineering:	Subtotal:	\$0.00
Section 2400 Minor Concrete:	Subtotal:	\$0.00
Section 2500 Gabions:	Subtotal:	\$0.00
Section 8000 Miscellaneous: Sediment Reduction Sediment Filter 5 EA x \$20.00/EA = \$100.00	Subtotal:	\$100.00
Mobilization: Construction - 0.44% of total Costs = \$23.31 surfacing = 0% \$0.00		

	Subtotal:	\$23.31
Quarry Development:		
	Subtotal:	\$0.00
	Total:	\$630.59

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Oh Henry TS	Sale Date: Sept 2017	
Road Number: 31-9-35.0F	Road Name: WALKER PRAIRIE	
Road Renovation: 0.21 mi	20 ft Subgrade 2 ft ditch	
200 Clearing and Grubbing: acres		\$0.00
300 Excavation:		\$0.00
400 Drainage:		\$0.00
Culvert: 0 lf		
DownSpout: 0 lf		
PolyPipe: 0 lf		
500 Renovation:		\$76.82
700-1200 Surfacing:		\$0.00
1300 Geotextiles:		\$0.00
1400 Slope Protection:		\$0.00
1800 Soil Stabilization: 0.0 acres		\$0.00
1900 Cattleguards:		\$0.00
2100 RoadSide Brushing (Manual):0.2 acres		\$132.67
2300 Engineering: 0.00 sta.		\$0.00
2400 Minor Concrete:		\$0.00
2500 Gabions:		\$0.00
8000 Miscellaneous:		\$40.00
Mobilization: Const. \$9.58 Surf. \$0.00.....		\$9.58
Quarry Development:		\$0.00
	Total:	\$259.07

Notes:

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

Road Construction Worksheet

Road Number: 31-9-35.0F	Road Name: WALKER PRAIRIE	
Section 200 Clearing and Grubbing:		
	Subtotal:	\$0.00
Section 300 Excavation:		
	Subtotal:	\$0.00
Section 400 Drainage:		
	Subtotal:	\$0.00
Section 500 Renovation:		
Clean Culverts: \$365.82/mi x 0.21 mi = \$76.82		
	Subtotal:	\$76.82
Section 700-1200 Surfacing:		
Surfacing:		
	Subtotal:	\$0.00

Section 1300 Geotextiles:	Subtotal:	\$0.00
Section 1400 Slope Protection:	Subtotal:	\$0.00
Section 1800 Soil Stabilization:	Subtotal:	\$0.00
Section 1900 Cattleguards:	Subtotal:	\$0.00
Section 2100 Roadside Brushing:		
Manual Brushing		
RoadSide Brushing Medium: \$663.36/acre x 0.20 acres = \$132.67	Subtotal:	\$132.67
Section 2300 Engineering:	Subtotal:	\$0.00
Section 2400 Minor Concrete:	Subtotal:	\$0.00
Section 2500 Gabions:	Subtotal:	\$0.00
Section 8000 Miscellaneous:		
Sediment Reduction		
Sediment Filter 2 EA x \$20.00/EA = \$40.00	Subtotal:	\$40.00
Mobilization:		
Construction - 0.18% of total Costs = \$9.58		
surfacing = 0% \$0.00	Subtotal:	\$9.58
Quarry Development:	Subtotal:	\$0.00
	Total:	\$259.07

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Oh Henry TS	Sale Date: Sept 2017
Road Number: 31-9-35.0G	Road Name: WALKER PRAIRIE
Road Renovation: 0.58 mi	20 ft Subgrade 2 ft ditch
200 Clearing and Grubbing: acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	\$212.18
700-1200 Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing (Manual):0.6 acres	\$398.02
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$120.00

Mobilization: Const. \$28.03 Surf. \$0.00.....	\$28.03
Quarry Development:	\$0.00
Total:	\$758.22

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

Road Construction Worksheet

Road Number: 31-9-35.0G Road Name: WALKER PRAIRIE

Section 200 Clearing and Grubbing:	Subtotal:	\$0.00
Section 300 Excavation:	Subtotal:	\$0.00
Section 400 Drainage:	Subtotal:	\$0.00
Section 500 Renovation: Clean Culverts: \$365.82/mi x 0.58 mi = \$212.18	Subtotal:	\$212.18
Section 700-1200 Surfacing: Surfacing:	Subtotal:	\$0.00
Section 1300 Geotextiles:	Subtotal:	\$0.00
Section 1400 Slope Protection:	Subtotal:	\$0.00
Section 1800 Soil Stabilization:	Subtotal:	\$0.00
Section 1900 Cattleguards:	Subtotal:	\$0.00
Section 2100 Roadside Brushing: Manual Brushing RoadSide Brushing Medium: \$663.36/acre x 0.60 acres = \$398.02	Subtotal:	\$398.02
Section 2300 Engineering:	Subtotal:	\$0.00
Section 2400 Minor Concrete:	Subtotal:	\$0.00
Section 2500 Gabions:	Subtotal:	\$0.00
Section 8000 Miscellaneous: Sediment Reduction Sediment Filter 6 EA x \$20.00/EA = \$120.00	Subtotal:	\$120.00
Mobilization: Construction - 0.53% of total Costs = \$28.03 surfacing = 0% \$0.00	Subtotal:	\$28.03
Quarry Development:	Subtotal:	\$0.00
Total:		\$758.22

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Oh Henry TS

Sale Date: Sept 2017

Road Number: 31-9-35.0H

Road Name: WALKER PRAIRIE

Road Renovation: 0.07 mi 20 ft Subgrade 2 ft ditch

200 Clearing and Grubbing: acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	\$25.61
700-1200 Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing (Manual):0.1 acres	\$79.60
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$20.00
Mobilization: Const. \$4.81 Surf. \$0.00.....	\$4.81
Quarry Development:	\$0.00
Total:	\$130.02

Notes:

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

Road Construction Worksheet

Road Number: 31-9-35.0H

Road Name: WALKER PRAIRIE

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Clean Culverts: \$365.82/mi x 0.07 mi = \$25.61

Subtotal: \$25.61

Section 700-1200 Surfacing:
Surfacing:

Subtotal: \$0.00

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Subtotal: \$0.00

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

Manual Brushing

RoadSide Brushing Medium: \$663.36/acre x 0.12 acres = \$79.60

Subtotal: \$79.60

Section 2300 Engineering:

Subtotal: \$0.00

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Sediment Reduction

Sediment Filter 1 EA x \$20.00/EA = \$20.00

Subtotal: \$20.00

Mobilization:

Construction - 0.09% of total Costs = \$4.81

surfacing = 0% \$0.00

Subtotal: \$4.81

Quarry Development:

Subtotal: \$0.00

Total: \$130.02

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Oh Henry TS

Sale Date: Sept 2017

Road Number: 31-9-35.01

Road Name: WALKER PRAIRIE

Road Renovation: 0.59 mi 20 ft Subgrade 2 ft ditch

200 Clearing and Grubbing: acres \$0.00

300 Excavation: \$0.00

400 Drainage: \$0.00

Culvert: 0 lf

DownSpout: 0 lf

PolyPipe: 0 lf

500 Renovation: \$215.83

700-1200 Surfacing: \$0.00

1300 Geotextiles: \$0.00

1400 Slope Protection: \$0.00

1800 Soil Stabilization: 0.0 acres \$0.00

1900 Cattleguards: \$0.00

2100 RoadSide Brushing (Manual):0.6 acres \$398.02

2300 Engineering: 0.00 sta. \$0.00

2400 Minor Concrete: \$0.00

2500 Gabions: \$0.00

8000 Miscellaneous: \$120.00

Mobilization: Const. \$28.17 Surf. \$0.00..... \$28.17

Quarry Development: \$0.00

Total: \$762.02

Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are loose cubic yards.

Road Construction Worksheet

Road Number: 31-9-35.0I Road Name: WALKER PRAIRIE

Section 200 Clearing and Grubbing:	Subtotal:	\$0.00
Section 300 Excavation:	Subtotal:	\$0.00
Section 400 Drainage:	Subtotal:	\$0.00
Section 500 Renovation: Clean Culverts: \$365.82/mi x 0.59 mi = \$215.83	Subtotal:	\$215.83
Section 700-1200 Surfacing: Surfacing:	Subtotal:	\$0.00
Section 1300 Geotextiles:	Subtotal:	\$0.00
Section 1400 Slope Protection:	Subtotal:	\$0.00
Section 1800 Soil Stabilization:	Subtotal:	\$0.00
Section 1900 Cattleguards:	Subtotal:	\$0.00
Section 2100 Roadside Brushing: Manual Brushing RoadSide Brushing Medium: \$663.36/acre x 0.60 acres = \$398.02	Subtotal:	\$398.02
Section 2300 Engineering:	Subtotal:	\$0.00
Section 2400 Minor Concrete:	Subtotal:	\$0.00
Section 2500 Gabions:	Subtotal:	\$0.00
Section 8000 Miscellaneous: Sediment Reduction Sediment Filter 6 EA x \$20.00/EA = \$120.00	Subtotal:	\$120.00
Mobilization: Construction - 0.53% of total Costs = \$28.17 surfacing = 0% \$0.00	Subtotal:	\$28.17
Quarry Development:	Subtotal:	\$0.00
	Total:	\$762.02

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Oh Henry TS	Sale Date: Sept 2017
Road Number: 31-9-35.0J	Road Name: WALKER PRAIRIE
Road Renovation: 0.33 mi	20 ft Subgrade 2 ft ditch
200 Clearing and Grubbing: acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	

PolyPipe: 0 lf

500 Renovation:	\$120.72
700-1200 Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing (Manual):0.3 acres	\$199.01
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$60.00
Mobilization: Const. \$14.58 Surf. \$0.00.....	\$14.58
Quarry Development:	\$0.00
Total:	\$394.31

Notes:

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

Road Construction Worksheet

Road Number: 31-9-35.0J Road Name: WALKER PRAIRIE

Section 200 Clearing and Grubbing:	Subtotal:	\$0.00
Section 300 Excavation:	Subtotal:	\$0.00
Section 400 Drainage:	Subtotal:	\$0.00
Section 500 Renovation: Clean Culverts: \$365.82/mi x 0.33 mi = \$120.72	Subtotal:	\$120.72
Section 700-1200 Surfacing: Surfacing:	Subtotal:	\$0.00
Section 1300 Geotextiles:	Subtotal:	\$0.00
Section 1400 Slope Protection:	Subtotal:	\$0.00
Section 1800 Soil Stabilization:	Subtotal:	\$0.00
Section 1900 Cattleguards:	Subtotal:	\$0.00
Section 2100 Roadside Brushing: Manual Brushing RoadSide Brushing Medium: \$663.36/acre x 0.30 acres = \$199.01	Subtotal:	\$199.01
Section 2300 Engineering:	Subtotal:	\$0.00
Section 2400 Minor Concrete:	Subtotal:	\$0.00

Section 2500 Gabions:	Subtotal:	\$0.00
Section 8000 Miscellaneous:		
Sediment Reduction		
Sediment Filter 3 EA x \$20.00/EA = \$60.00	Subtotal:	\$60.00
Mobilization:		
Construction - 0.27% of total Costs = \$14.58		
surfacing = 0% \$0.00	Subtotal:	\$14.58
Quarry Development:	Subtotal:	\$0.00
	Total:	\$394.31

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Oh Henry TS	Sale Date: Sept 2017	
Road Number: 31-9-35.0K	Road Name: WALKER PRAIRIE	
Road Renovation: 0.52 mi	20 ft Subgrade 2 ft ditch	
200 Clearing and Grubbing: acres		\$0.00
300 Excavation:		\$0.00
400 Drainage:		\$0.00
Culvert: 0 lf		
DownSpout: 0 lf		
PolyPipe: 0 lf		
500 Renovation:		\$190.23
700-1200 Surfacing:		\$0.00
1300 Geotextiles:		\$0.00
1400 Slope Protection:		\$0.00
1800 Soil Stabilization: 0.0 acres		\$0.00
1900 Cattleguards:		\$0.00
2100 RoadSide Brushing (Manual):0.5 acres		\$331.68
2300 Engineering: 0.00 sta.		\$0.00
2400 Minor Concrete:		\$0.00
2500 Gabions:		\$0.00
8000 Miscellaneous:		\$100.00
Mobilization: Const. \$23.88 Surf. \$0.00.....		\$23.88
Quarry Development:		\$0.00
	Total:	\$645.78

Notes:

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

Road Construction Worksheet

Road Number: 31-9-35.0K	Road Name: WALKER PRAIRIE	
Section 200 Clearing and Grubbing:	Subtotal:	\$0.00
Section 300 Excavation:	Subtotal:	\$0.00

Section 400 Drainage:	Subtotal:	\$0.00
Section 500 Renovation:		
Clean Culverts: \$365.82/mi x 0.52 mi = \$190.23	Subtotal:	\$190.23
Section 700-1200 Surfacing:		
Surfacing:	Subtotal:	\$0.00
Section 1300 Geotextiles:	Subtotal:	\$0.00
Section 1400 Slope Protection:	Subtotal:	\$0.00
Section 1800 Soil Stabilization:	Subtotal:	\$0.00
Section 1900 Cattleguards:	Subtotal:	\$0.00
Section 2100 Roadside Brushing:		
Manual Brushing		
RoadSide Brushing Medium: \$663.36/acre x 0.50 acres = \$331.68	Subtotal:	\$331.68
Section 2300 Engineering:	Subtotal:	\$0.00
Section 2400 Minor Concrete:	Subtotal:	\$0.00
Section 2500 Gabions:	Subtotal:	\$0.00
Section 8000 Miscellaneous:		
Sediment Reduction		
Sediment Filter 5 EA x \$20.00/EA = \$100.00	Subtotal:	\$100.00
Mobilization:		
Construction - 0.45% of total Costs = \$23.88		
surfacing = 0% \$0.00	Subtotal:	\$23.88
Quarry Development:	Subtotal:	\$0.00
	Total:	\$645.78

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Oh Henry TS	Sale Date: Sept 2017
Road Number: 31-9-35.1A	Road Name: Finger Crk
Road Renovation: 1.23 mi 16 ft Subgrade 2 ft ditch	
200 Clearing and Grubbing: acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	\$1,704.52
Blading 1.23 mi	
700-1200 Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00

1900 Cattleguards:	\$0.00
2100 RoadSide Brushing (Manual):3.0 acres	\$1,990.08
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$240.00
Mobilization: Const. \$151.05 Surf. \$0.00.....	\$151.05
Quarry Development:	\$0.00
Total:	\$4,085.65

Notes:

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

Road Construction Worksheet

Road Number: 31-9-35.1A Road Name: Finger Crk

Section 200 Clearing and Grubbing:	Subtotal:	\$0.00
Section 300 Excavation:	Subtotal:	\$0.00
Section 400 Drainage:	Subtotal:	\$0.00
Section 500 Renovation:		
Blading: \$694.50/mi x 1.23 mi = \$854.24		
Compaction: \$325.47/mi x 1.23 mi = \$400.33		
Clean Culverts: \$365.82/mi x 1.23 mi = \$449.96	Subtotal:	\$1,704.52
Section 700-1200 Surfacing:		
Surfacing:	Subtotal:	\$0.00
Section 1300 Geotextiles:	Subtotal:	\$0.00
Section 1400 Slope Protection:	Subtotal:	\$0.00
Section 1800 Soil Stabilization:	Subtotal:	\$0.00
Section 1900 Cattleguards:	Subtotal:	\$0.00
Section 2100 Roadside Brushing:		
Manual Brushing		
RoadSide Brushing Medium: \$663.36/acre x 3.00 acres = \$1,990.08	Subtotal:	\$1,990.08
Section 2300 Engineering:	Subtotal:	\$0.00
Section 2400 Minor Concrete:	Subtotal:	\$0.00
Section 2500 Gabions:	Subtotal:	\$0.00
Section 8000 Miscellaneous:		
Sediment Reduction		
Sediment Filter 20 EA x \$12.00/EA = \$240.00	Subtotal:	\$240.00
Mobilization:		
Construction - 2.83% of total Costs = \$151.05		
surfacing = 0% \$0.00	Subtotal:	\$151.05
Quarry Development:	Subtotal:	\$0.00

Total: \$4,085.65

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Oh Henry TS Sale Date: Sept 2017

Road Number: 31-9-35.1B Road Name: Finger Crk

Road Renovation: 0.87 mi 16 ft Subgrade 2 ft ditch

200 Clearing and Grubbing: acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	\$1,205.64
Blading 0.87 mi	
700-1200 Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing (Manual):2.1 acres	\$1,393.06
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$180.00
Mobilization: Const. \$106.67 Surf. \$0.00.....	\$106.67
Quarry Development:	\$0.00
Total:	\$2,885.37

Notes:

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

Road Construction Worksheet

Road Number: 31-9-35.1B Road Name: Finger Crk

Section 200 Clearing and Grubbing:	Subtotal:	\$0.00
Section 300 Excavation:	Subtotal:	\$0.00
Section 400 Drainage:	Subtotal:	\$0.00
Section 500 Renovation:		
Blading: \$694.50/mi x 0.87 mi = \$604.22		
Compaction: \$325.47/mi x 0.87 mi = \$283.16		
Clean Culverts: \$365.82/mi x 0.87 mi = \$318.26		
	Subtotal:	\$1,205.64
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:		

Section 1900 Cattleguards:	Subtotal:	\$0.00
	Subtotal:	\$0.00
Section 2100 Roadside Brushing:		
Manual Brushing		
RoadSide Brushing Medium: \$663.36/acre x 2.10 acres = \$1,393.06	Subtotal:	\$1,393.06
Section 2300 Engineering:	Subtotal:	\$0.00
Section 2400 Minor Concrete:	Subtotal:	\$0.00
Section 2500 Gabions:	Subtotal:	\$0.00
Section 8000 Miscellaneous:		
Sediment Reduction		
Sediment Filter 20 EA x \$9.00/EA = \$180.00	Subtotal:	\$180.00
Mobilization:		
Construction - 2.00% of total Costs = \$106.67		
surfacing = 0% \$0.00	Subtotal:	\$106.67
Quarry Development:	Subtotal:	\$0.00
	Total:	\$2,885.37

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Oh Henry TS	Sale Date: Sept 2017
Road Number: 31-9-35.1C	Road Name: Finger Crk
Road Renovation: 0.37 mi	16 ft Subgrade 2 ft ditch
200 Clearing and Grubbing: 0.4 acres	\$504.67
300 Excavation:	\$0.00
400 Drainage:	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	\$512.74
Blading 0.37 mi	
700-1200 Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing (Manual):0.9 acres	\$597.02
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$80.00
Mobilization: Const. \$65.05 Surf. \$0.00	\$65.05
Quarry Development:	\$0.00
	Total: \$1,759.49

Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are loose cubic yards.

Road Construction Worksheet

Road Number: 31-9-35.1C Road Name: Finger Crk

Section 200 Clearing and Grubbing:

Clearing - Brush (Clearing): Adjustment Factor (0)
1-15% (Avg Side Slopes): Adjustment Factor (0)
Pile and Burn (Slash): Adjustment Factor (1.28)
less than 20' (Avg Clearing Widths): Adjustment Factor (0.25)
Total Adjustment Factor: $0 + 0 + 1.28 + 0.25 = 1.53$
Base Cost/Acre: \$891.49 x Adjustment Factor: 1.53 x Total Acres: .37 = \$504.67

Subtotal: \$504.67

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Blading: \$694.50/mi x 0.37 mi = \$256.97
Compaction: \$325.47/mi x 0.37 mi = \$120.42
Clean Culverts: \$365.82/mi x 0.37 mi = \$135.35

Subtotal: \$512.74

Section 700-1200 Surfacing:
Surfacing:

Subtotal: \$0.00

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Subtotal: \$0.00

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:
Manual Brushing

RoadSide Brushing Medium: \$663.36/acre x 0.90 acres = \$597.02

Subtotal: \$597.02

Section 2300 Engineering:

Subtotal: \$0.00

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Sediment reduction
Sediment Filter 20 EA x \$4.00/EA = \$80.00

Subtotal: \$80.00

Mobilization:

Construction - 1.22% of total Costs = \$65.05
surfacing = 0% \$0.00

Subtotal: \$65.05

Quarry Development:

Subtotal: \$0.00

Total: \$1,759.49

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Oh Henry TS Sale Date: Sept 2017
Road Number: 31-9-35.1D Road Name: Finger Crk

Road Renovation: 0.74 mi 16 ft Subgrade 2 ft ditch

200 Clearing and Grubbing: 0.7 acres \$1,009.34

300 Excavation: \$0.00

400 Drainage: \$0.00

Culvert: 0 lf
DownSpout: 0 lf
PolyPipe: 0 lf

500 Renovation:	\$1,025.48
Blading 0.74 mi	
700-1200 Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing (Manual):1.8 acres	\$1,194.05
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$140.00
Mobilization: Const. \$129.33 Surf. \$0.00.....	\$129.33
Quarry Development:	\$0.00
	Total: \$3,498.21

Notes:

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

Road Construction Worksheet

Road Number: 31-9-35.1D Road Name: Finger Crk

Section 200 Clearing and Grubbing:

Clearing - Brush (Clearing): Adjustment Factor (0)

1-15% (Avg Side Slopes): Adjustment Factor (0)

Pile and Burn (Slash): Adjustment Factor (1.28)

less than 20' (Avg Clearing Widths): Adjustment Factor (0.25)

Total Adjustment Factor: 0 + 0 + 1.28 + 0.25 = 1.53

Base Cost/Acre: \$891.49 x Adjustment Factor: 1.53 x Total Acres: .74 = \$1,009.34

Subtotal: \$1,009.34

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Blading: \$694.50/mi x 0.74 mi = \$513.93

Compaction: \$325.47/mi x 0.74 mi = \$240.85

Clean Culverts: \$365.82/mi x 0.74 mi = \$270.71

Subtotal: \$1,025.48

Section 700-1200 Surfacing:

Surfacing:

Subtotal: \$0.00

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Subtotal: \$0.00

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

Manual Brushing

RoadSide Brushing Medium: \$663.36/acre x 1.80 acres = \$1,194.05

Subtotal: \$1,194.05

Section 2300 Engineering:

Subtotal: \$0.00

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:	Subtotal:	\$0.00
Section 8000 Miscellaneous:		
Sediment reduction		
Sediment Filter: 20 EA x \$7.00/EA = \$140.00	Subtotal:	\$140.00
Mobilization:		
Construction - 2.42% of total Costs = \$129.33		
surfacing = 0% \$0.00	Subtotal:	\$129.33
Quarry Development:	Subtotal:	\$0.00
	Total:	\$3,498.21

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Oh Henry TS Sale Date: Sept 2017	
Road Number: 32-8-1.1 Road Name: West Fork Cow Crk	
Road Renovation: 10.81 mi 20 ft Subgrade 2 ft ditch	
200 Clearing and Grubbing: acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	\$3,954.51
700-1200 Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing (Manual):6.0 acres	\$1,990.08
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$228.21 Surf. \$0.00.....	\$228.21
Quarry Development:	\$0.00
	Total: \$6,172.81

Notes:

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

Road Construction Worksheet

Road Number: 32-8-1.1 Road Name: West Fork Cow Crk

Section 200 Clearing and Grubbing:	Subtotal:	\$0.00
Section 300 Excavation:	Subtotal:	\$0.00
Section 400 Drainage:	Subtotal:	\$0.00
Section 500 Renovation:		
Clean Culverts: \$365.82/mi x 10.81 mi = \$3,954.51		

	Subtotal:	\$3,954.51
Section 700-1200 Surfacing:		
Surfacing:	Subtotal:	\$0.00
Section 1300 Geotextiles:	Subtotal:	\$0.00
Section 1400 Slope Protection:	Subtotal:	\$0.00
Section 1800 Soil Stabilization:	Subtotal:	\$0.00
Section 1900 Cattleguards:	Subtotal:	\$0.00
Section 2100 Roadside Brushing:		
Manual Brushing		
Brushing width Left: 4ft. Right: 4ft.		
RoadSide Brushing Light: \$331.68/acre x 6.00 acres = \$1,990.08	Subtotal:	\$1,990.08
Section 2300 Engineering:	Subtotal:	\$0.00
Section 2400 Minor Concrete:	Subtotal:	\$0.00
Section 2500 Gabions:	Subtotal:	\$0.00
Section 8000 Miscellaneous:	Subtotal:	\$0.00
Mobilization:		
Construction - 4.28% of total Costs = \$228.21		
surfacing = 0% \$0.00	Subtotal:	\$228.21
Quarry Development:	Subtotal:	\$0.00
	Total:	\$6,172.81

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Oh Henry TS	Sale Date: Sept 2017
Road Number: 32-8-31.0A	Road Name: Kelsey Mule
Road Renovation: 1.76 mi	16 ft Subgrade 2 ft ditch
200 Clearing and Grubbing: acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	\$643.84
700-1200 Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing (Manual):0.1 acres	\$66.34
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$27.26 Surf. \$0.00.....	\$27.26
Quarry Development:	\$0.00

Total: \$737.44

Notes:

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

Road Construction Worksheet

Road Number: 32-8-31.0A Road Name: Kelsey Mule

Section 200 Clearing and Grubbing:	Subtotal:	\$0.00
Section 300 Excavation:	Subtotal:	\$0.00
Section 400 Drainage:	Subtotal:	\$0.00
Section 500 Renovation:		
Clean Culverts: \$365.82/mi x 1.76 mi = \$643.84	Subtotal:	\$643.84
Section 700-1200 Surfacing:		
Surfacing:	Subtotal:	\$0.00
Section 1300 Geotextiles:	Subtotal:	\$0.00
Section 1400 Slope Protection:	Subtotal:	\$0.00
Section 1800 Soil Stabilization:	Subtotal:	\$0.00
Section 1900 Cattleguards:	Subtotal:	\$0.00
Section 2100 Roadside Brushing:		
Manual Brushing		
RoadSide Brushing Medium: \$663.36/acre x 0.10 acres = \$66.34	Subtotal:	\$66.34
Section 2300 Engineering:	Subtotal:	\$0.00
Section 2400 Minor Concrete:	Subtotal:	\$0.00
Section 2500 Gabions:	Subtotal:	\$0.00
Section 8000 Miscellaneous:	Subtotal:	\$0.00
Mobilization:		
Construction - 0.51% of total Costs = \$27.26		
surfacing = 0% \$0.00	Subtotal:	\$27.26
Quarry Development:	Subtotal:	\$0.00
	Total:	\$737.44

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Oh Henry TS	Sale Date: Sept 2017
Road Number: 32-8-31.0B	Road Name: Kelsey Mule
Road Renovation: 3.66 mi	16 ft Subgrade 2 ft ditch
200 Clearing and Grubbing: acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	\$1,338.90
700-1200 Surfacing:	\$0.00

1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing (Manual):2.5 acres	\$1,658.40
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$115.07 Surf. \$0.00.....	\$115.07
Quarry Development:	\$0.00
Total:	\$3,112.37

Notes:

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

Road Construction Worksheet

Road Number: 32-8-31.0B Road Name: Kelsey Mule

Section 200 Clearing and Grubbing:	Subtotal:	\$0.00
Section 300 Excavation:	Subtotal:	\$0.00
Section 400 Drainage:	Subtotal:	\$0.00
Section 500 Renovation:		
Clean Culverts: \$365.82/mi x 3.66 mi = \$1,338.90	Subtotal:	\$1,338.90
Section 700-1200 Surfacing:		
Surfacing:	Subtotal:	\$0.00
Section 1300 Geotextiles:	Subtotal:	\$0.00
Section 1400 Slope Protection:	Subtotal:	\$0.00
Section 1800 Soil Stabilization:	Subtotal:	\$0.00
Section 1900 Cattleguards:	Subtotal:	\$0.00
Section 2100 Roadside Brushing:		
Manual Brushing		
RoadSide Brushing Medium: \$663.36/acre x 2.50 acres = \$1,658.40	Subtotal:	\$1,658.40
Section 2300 Engineering:	Subtotal:	\$0.00
Section 2400 Minor Concrete:	Subtotal:	\$0.00
Section 2500 Gabions:	Subtotal:	\$0.00
Section 8000 Miscellaneous:	Subtotal:	\$0.00
Mobilization:		
Construction - 2.16% of total Costs = \$115.07		
surfacing = 0% \$0.00	Subtotal:	\$115.07
Quarry Development:	Subtotal:	\$0.00
Total:		\$3,112.37

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Oh Henry TS Sale Date: Sept 2017

Road Number: 32-8-31.0C

Road Name: Kelsey Mule

Road Renovation: 1.72 mi 16 ft Subgrade 2 ft ditch

200 Clearing and Grubbing: acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	\$629.21
700-1200 Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing (Manual):1.7 acres	\$1,127.71
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$67.45 Surf. \$0.00.....	\$67.45
Quarry Development:	\$0.00
Total:	\$1,824.37

Notes:

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

Road Construction Worksheet

Road Number: 32-8-31.0C Road Name: Kelsey Mule

Section 200 Clearing and Grubbing:	Subtotal:	\$0.00
Section 300 Excavation:	Subtotal:	\$0.00
Section 400 Drainage:	Subtotal:	\$0.00
Section 500 Renovation:		
Clean Culverts: \$365.82/mi x 1.72 mi = \$629.21	Subtotal:	\$629.21
Section 700-1200 Surfacing:		
Surfacing:	Subtotal:	\$0.00
Section 1300 Geotextiles:	Subtotal:	\$0.00
Section 1400 Slope Protection:	Subtotal:	\$0.00
Section 1800 Soil Stabilization:	Subtotal:	\$0.00
Section 1900 Cattleguards:	Subtotal:	\$0.00
Section 2100 Roadside Brushing:		
Manual Brushing		

RoadSide Brushing Medium: \$663.36/acre x 1.70 acres = \$1,127.71	Subtotal:	\$1,127.71
Section 2300 Engineering:	Subtotal:	\$0.00
Section 2400 Minor Concrete:	Subtotal:	\$0.00
Section 2500 Gabions:	Subtotal:	\$0.00
Section 8000 Miscellaneous:	Subtotal:	\$0.00
Mobilization:		
Construction - 1.26% of total Costs = \$67.45		
surfacing = 0% \$0.00	Subtotal:	\$67.45
Quarry Development:	Subtotal:	\$0.00
	Total:	\$1,824.37

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Oh Henry TS	Sale Date: Sept 2017
Road Number: 32-8-9.2	Road Name: Bobby Crk Access
Road Renovation: 6.31 mi	16 ft Subgrade 2 ft ditch
200 Clearing and Grubbing: acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	\$2,308.32
700-1200 Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing (Manual):6.1 acres	\$2,023.25
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$166.29 Surf. \$0.00.....	\$166.29
Quarry Development:	\$0.00
	Total: \$4,497.86

Notes:

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

Road Construction Worksheet

Road Number: 32-8-9.2 Road Name: Bobby Crk Access

Section 200 Clearing and Grubbing:

Section 300 Excavation:	Subtotal:	\$0.00
Section 400 Drainage:	Subtotal:	\$0.00
Section 500 Renovation:	Subtotal:	\$0.00
Clean Culverts: \$365.82/mi x 6.31 mi = \$2,308.32	Subtotal:	\$2,308.32
Section 700-1200 Surfacing:		
Surfacing:	Subtotal:	\$0.00
Section 1300 Geotextiles:	Subtotal:	\$0.00
Section 1400 Slope Protection:	Subtotal:	\$0.00
Section 1800 Soil Stabilization:	Subtotal:	\$0.00
Section 1900 Cattleguards:	Subtotal:	\$0.00
Section 2100 Roadside Brushing:		
Manual Brushing		
Brushing width Left: 4ft. Right: 4ft.		
RoadSide Brushing Light: \$331.68/acre x 6.10 acres = \$2,023.25	Subtotal:	\$2,023.25
Section 2300 Engineering:	Subtotal:	\$0.00
Section 2400 Minor Concrete:	Subtotal:	\$0.00
Section 2500 Gabions:	Subtotal:	\$0.00
Section 8000 Miscellaneous:	Subtotal:	\$0.00
Mobilization:		
Construction - 3.12% of total Costs = \$166.29		
surfacing = 0% \$0.00	Subtotal:	\$166.29
Quarry Development:	Subtotal:	\$0.00
	Total:	\$4,497.86

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Oh Henry TS	Sale Date: Sept 2017
Road Number: 32-9-10.0A	Road Name: Middle Walker Crk
Road Renovation: 0.05 mi	16 ft Subgrade 2 ft ditch
200 Clearing and Grubbing: acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	\$69.29
Blading 0.05 mi	
700-1200 Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing (Manual): 0.1 acres	\$66.34
2300 Engineering: 0.00 sta.	\$0.00

2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$20.00
Mobilization: Const. \$5.97 Surf. \$0.00.....	\$5.97
Quarry Development:	\$0.00
	Total: \$161.60

Notes:

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

Road Construction Worksheet

Road Number: 32-9-10.0A Road Name: Middle Walker Crk

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Blading: \$694.50/mi x 0.05 mi = \$34.73

Compaction: \$325.47/mi x 0.05 mi = \$16.27

Clean Culverts: \$365.82/mi x 0.05 mi = \$18.29

Subtotal: \$69.29

Section 700-1200 Surfacing:

Surfacing:

Subtotal: \$0.00

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Subtotal: \$0.00

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

Manual Brushing

RoadSide Brushing Medium: \$663.36/acre x 0.10 acres = \$66.34

Subtotal: \$66.34

Section 2300 Engineering:

Subtotal: \$0.00

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Sediment Reduction

Sediment Filter 1 EA x \$20.00/EA = \$20.00

Subtotal: \$20.00

Mobilization:

Construction - 0.11% of total Costs = \$5.97

surfacing = 0% \$0.00

Subtotal: \$5.97

Quarry Development:

Subtotal: \$0.00

Total: \$161.60

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Oh Henry TS		Sale Date: Sept 2017	
Road Number: 32-9-10.0B		Road Name: Middle Walker Crk	
Road Renovation: 1.26 mi 16 ft Subgrade 2 ft ditch			
200 Clearing and Grubbing:	acres		\$0.00
300 Excavation:	.....		\$0.00
400 Drainage:	.....		\$0.00
	Culvert: 0 lf		
	DownSpout: 0 lf		
	PolyPipe: 0 lf		
500 Renovation:	.....	\$1,746.10	
	Blading 1.26 mi		
700-1200 Surfacing:	.....		\$0.00
1300 Geotextiles:	.....		\$0.00
1400 Slope Protection:	.....		\$0.00
1800 Soil Stabilization:	0.0 acres		\$0.00
1900 Cattleguards:	.....		\$0.00
2100 RoadSide Brushing (Manual):	1.2 acres	\$796.03	
2300 Engineering:	0.00 sta.		\$0.00
2400 Minor Concrete:	.....		\$0.00
2500 Gabions:	.....		\$0.00
8000 Miscellaneous:	.....		\$260.00
Mobilization: Const.	\$107.57 Surf. \$0.00.....		\$107.57
Quarry Development:	.....		\$0.00
			Total: \$2,909.70

Notes:

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

Road Construction Worksheet

Road Number: 32-9-10.0B Road Name: Middle Walker Crk

Section 200 Clearing and Grubbing:	Subtotal:	\$0.00
Section 300 Excavation:	Subtotal:	\$0.00
Section 400 Drainage:	Subtotal:	\$0.00
Section 500 Renovation:		
Blading: \$694.50/mi x 1.26 mi = \$875.07		
Compaction: \$325.47/mi x 1.26 mi = \$410.09		
Clean Culverts: \$365.82/mi x 1.26 mi = \$460.93		
	Subtotal:	\$1,746.10
Section 700-1200 Surfacing:		
Surfacing:	Subtotal:	\$0.00
Section 1300 Geotextiles:	Subtotal:	\$0.00
Section 1400 Slope Protection:	Subtotal:	\$0.00
Section 1800 Soil Stabilization:	Subtotal:	\$0.00
Section 1900 Cattleguards:	Subtotal:	\$0.00
Section 2100 Roadside Brushing:		
Manual Brushing		

RoadSide Brushing Medium: \$663.36/acre x 1.20 acres = \$796.03	Subtotal:	\$796.03
Section 2300 Engineering:	Subtotal:	\$0.00
Section 2400 Minor Concrete:	Subtotal:	\$0.00
Section 2500 Gabions:	Subtotal:	\$0.00
Section 8000 Miscellaneous: Sediment Reduction Sediment Filter 13 EA x \$20.00/EA = \$260.00	Subtotal:	\$260.00
Mobilization: Construction - 2.02% of total Costs = \$107.57 surfacing = 0% \$0.00	Subtotal:	\$107.57
Quarry Development:	Subtotal:	\$0.00
	Total:	\$2,909.70

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Oh Henry TS	Sale Date: Sept 2017	
Road Number: 32-9-10.1A	Road Name: Crooked Finger	
Road Renovation: 0.28 mi	14 ft Subgrade 2 ft ditch	
200 Clearing and Grubbing: acres		\$0.00
300 Excavation:		\$0.00
400 Drainage:		\$0.00
Culvert: 0 lf		
DownSpout: 0 lf		
PolyPipe: 0 lf		
500 Renovation:		\$388.02
Blading 0.28 mi		
700-1200 Surfacing:		\$0.00
1300 Geotextiles:		\$0.00
1400 Slope Protection:		\$0.00
1800 Soil Stabilization: 0.0 acres		\$0.00
1900 Cattleguards:		\$0.00
2100 RoadSide Brushing (Manual):0.3 acres		\$398.02
2300 Engineering: 0.00 sta.		\$0.00
2400 Minor Concrete:		\$0.00
2500 Gabions:		\$0.00
8000 Miscellaneous:		\$0.00
Mobilization: Const. \$30.18 Surf. \$0.00.....		\$30.18
Quarry Development:		\$0.00
	Total:	\$816.21

Notes:

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

Road Number: 32-9-10.1A Road Name: Crooked Finger

Section 200 Clearing and Grubbing:	Subtotal:	\$0.00
Section 300 Excavation:	Subtotal:	\$0.00
Section 400 Drainage:	Subtotal:	\$0.00
Section 500 Renovation:		
Blading: \$694.50/mi x 0.28 mi = \$194.46		
Compaction: \$325.47/mi x 0.28 mi = \$91.13		
Clean Culverts: \$365.82/mi x 0.28 mi = \$102.43	Subtotal:	\$388.02
Section 700-1200 Surfacing:		
Surfacing:	Subtotal:	\$0.00
Section 1300 Geotextiles:	Subtotal:	\$0.00
Section 1400 Slope Protection:	Subtotal:	\$0.00
Section 1800 Soil Stabilization:	Subtotal:	\$0.00
Section 1900 Cattleguards:	Subtotal:	\$0.00
Section 2100 Roadside Brushing:		
Manual Brushing		
RoadSide Brushing Heavy: \$1326.72/acre x 0.30 acres = \$398.02	Subtotal:	\$398.02
Section 2300 Engineering:	Subtotal:	\$0.00
Section 2400 Minor Concrete:	Subtotal:	\$0.00
Section 2500 Gabions:	Subtotal:	\$0.00
Section 8000 Miscellaneous:	Subtotal:	\$0.00
Mobilization:		
Construction - 0.57% of total Costs = \$30.18		
surfacing = 0% \$0.00	Subtotal:	\$30.18
Quarry Development:	Subtotal:	\$0.00
	Total:	\$816.21

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Oh Henry TS	Sale Date: Sept 2017
Road Number: 32-9-10.1B	Road Name: Crooked Finger
Road Renovation: 0.57 mi	14 ft Subgrade 2 ft ditch
200 Clearing and Grubbing: acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	\$789.90
Blading 0.57 mi	
700-1200 Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00

1900 Cattleguards:	\$0.00
2100 RoadSide Brushing (Manual):0.6 acres	\$796.03
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$60.88 Surf. \$0.00.....	\$60.88
Quarry Development:	\$0.00
Total:	\$1,646.82

Notes:

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

Road Construction Worksheet

Road Number: 32-9-10.1B Road Name: Crooked Finger

Section 200 Clearing and Grubbing:	Subtotal:	\$0.00
Section 300 Excavation:	Subtotal:	\$0.00
Section 400 Drainage:	Subtotal:	\$0.00
Section 500 Renovation:		
Blading: \$694.50/mi x 0.57 mi = \$395.87		
Compaction: \$325.47/mi x 0.57 mi = \$185.52		
Clean Culverts: \$365.82/mi x 0.57 mi = \$208.52	Subtotal:	\$789.90
Section 700-1200 Surfacing:		
Surfacing:	Subtotal:	\$0.00
Section 1300 Geotextiles:	Subtotal:	\$0.00
Section 1400 Slope Protection:	Subtotal:	\$0.00
Section 1800 Soil Stabilization:	Subtotal:	\$0.00
Section 1900 Cattleguards:	Subtotal:	\$0.00
Section 2100 Roadside Brushing:		
Manual Brushing		
RoadSide Brushing Heavy: \$1326.72/acre x 0.60 acres = \$796.03	Subtotal:	\$796.03
Section 2300 Engineering:	Subtotal:	\$0.00
Section 2400 Minor Concrete:	Subtotal:	\$0.00
Section 2500 Gabions:	Subtotal:	\$0.00
Section 8000 Miscellaneous:	Subtotal:	\$0.00
Mobilization:		
Construction - 1.14% of total Costs = \$60.88		
surfacing = 0% \$0.00	Subtotal:	\$60.88
Quarry Development:	Subtotal:	\$0.00
Total:		\$1,646.82

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Oh Henry TS	Sale Date: Sept 2017
Road Number: 32-9-10.1C	Road Name: Crooked Finger
Road Renovation: 0.39 mi	14 ft Subgrade 2 ft ditch
200 Clearing and Grubbing: acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	\$540.46
Blading 0.39 mi	
700-1200 Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing (Manual):0.4 acres	\$530.69
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$41.12 Surf. \$0.00.....	\$41.12
Quarry Development:	\$0.00
Total:	\$1,112.27

Notes:

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

Road Construction Worksheet

Road Number: 32-9-10.1C Road Name: Crooked Finger

Section 200 Clearing and Grubbing:	Subtotal:	\$0.00
Section 300 Excavation:	Subtotal:	\$0.00
Section 400 Drainage:	Subtotal:	\$0.00
Section 500 Renovation:		
Blading: \$694.50/mi x 0.39 mi = \$270.86		
Compaction: \$325.47/mi x 0.39 mi = \$126.93		
Clean Culverts: \$365.82/mi x 0.39 mi = \$142.67	Subtotal:	\$540.46
Section 700-1200 Surfacing:		
Surfacing:	Subtotal:	\$0.00
Section 1300 Geotextiles:	Subtotal:	\$0.00
Section 1400 Slope Protection:	Subtotal:	\$0.00

Section 1800 Soil Stabilization:	Subtotal:	\$0.00
Section 1900 Cattleguards:	Subtotal:	\$0.00
Section 2100 Roadside Brushing:		
Manual Brushing		
RoadSide Brushing Heavy: \$1326.72/acre x 0.40 acres = \$530.69	Subtotal:	\$530.69
Section 2300 Engineering:	Subtotal:	\$0.00
Section 2400 Minor Concrete:	Subtotal:	\$0.00
Section 2500 Gabions:	Subtotal:	\$0.00
Section 8000 Miscellaneous:	Subtotal:	\$0.00
Mobilization:		
Construction - 0.77% of total Costs = \$41.12		
surfacing = 0% \$0.00	Subtotal:	\$41.12
Quarry Development:	Subtotal:	\$0.00
	Total:	\$1,112.27

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Oh Henry TS	Sale Date: Sept 2017	
Road Number: 32-9-10.4	Road Name: Unknown	
Road Renovation: 0.24 mi	14 ft Subgrade 2 ft ditch	
200 Clearing and Grubbing: acres		\$0.00
300 Excavation:		\$0.00
400 Drainage:		\$0.00
Culvert: 0 lf		
DownSpout: 0 lf		
PolyPipe: 0 lf		
500 Renovation:		\$332.59
Blading 0.24 mi		
700-1200 Surfacing:		\$0.00
1300 Geotextiles:		\$0.00
1400 Slope Protection:		\$0.00
1800 Soil Stabilization: 0.0 acres		\$0.00
1900 Cattleguards:		\$0.00
2100 RoadSide Brushing (Manual):0.2 acres		\$132.67
2300 Engineering: 0.00 sta.		\$0.00
2400 Minor Concrete:		\$0.00
2500 Gabions:		\$0.00
8000 Miscellaneous:		\$0.00
Mobilization: Const. \$17.86 Surf. \$0.00.....		\$17.86
Quarry Development:		\$0.00
	Total:	\$483.12
Notes:		

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

Road Construction Worksheet

Road Number: 32-9-10.4 Road Name: Unknown

Section 200 Clearing and Grubbing:	Subtotal:	\$0.00
Section 300 Excavation:	Subtotal:	\$0.00
Section 400 Drainage:	Subtotal:	\$0.00
Section 500 Renovation: Blading: \$694.50/mi x 0.24 mi = \$166.68 Compaction: \$325.47/mi x 0.24 mi = \$78.11 Clean Culverts: \$365.82/mi x 0.24 mi = \$87.80	Subtotal:	\$332.59
Section 700-1200 Surfacing: Surfacing:	Subtotal:	\$0.00
Section 1300 Geotextiles:	Subtotal:	\$0.00
Section 1400 Slope Protection:	Subtotal:	\$0.00
Section 1800 Soil Stabilization:	Subtotal:	\$0.00
Section 1900 Cattleguards:	Subtotal:	\$0.00
Section 2100 Roadside Brushing: Manual Brushing RoadSide Brushing Medium: \$663.36/acre x 0.20 acres = \$132.67	Subtotal:	\$132.67
Section 2300 Engineering:	Subtotal:	\$0.00
Section 2400 Minor Concrete:	Subtotal:	\$0.00
Section 2500 Gabions:	Subtotal:	\$0.00
Section 8000 Miscellaneous:	Subtotal:	\$0.00
Mobilization: Construction - 0.33% of total Costs = \$17.86 surfacing = 0% \$0.00	Subtotal:	\$17.86
Quarry Development:	Subtotal:	\$0.00
	Total:	\$483.12

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Oh Henry TS	Sale Date: Sept 2017
Road Number: 32-9-15.0	Road Name: Cold Spring Camp A
Road Renovation: 1.10 mi	12 ft Subgrade 2 ft ditch
200 Clearing and Grubbing: acres	\$0.00

300 Excavation:	\$0.00
400 Drainage:	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	\$402.40
700-1200 Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing (Manual):1.1 acres	\$729.70
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$43.46 Surf. \$0.00.....	\$43.46
Quarry Development:	\$0.00
	Total: \$1,175.56

Notes:

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

Road Construction Worksheet

Road Number: 32-9-15.0 Road Name: Cold Spring Camp A

Section 200 Clearing and Grubbing:	Subtotal:	\$0.00
Section 300 Excavation:	Subtotal:	\$0.00
Section 400 Drainage:	Subtotal:	\$0.00
Section 500 Renovation: Clean Culverts: \$365.82/mi x 1.10 mi = \$402.40	Subtotal:	\$402.40
Section 700-1200 Surfacing: Surfacing:	Subtotal:	\$0.00
Section 1300 Geotextiles:	Subtotal:	\$0.00
Section 1400 Slope Protection:	Subtotal:	\$0.00
Section 1800 Soil Stabilization:	Subtotal:	\$0.00
Section 1900 Cattleguards:	Subtotal:	\$0.00
Section 2100 Roadside Brushing: Manual Brushing RoadSide Brushing Medium: \$663.36/acre x 1.10 acres = \$729.70	Subtotal:	\$729.70
Section 2300 Engineering:		

	Subtotal:	\$0.00
Section 2400 Minor Concrete:		
	Subtotal:	\$0.00
Section 2500 Gabions:		
	Subtotal:	\$0.00
Section 8000 Miscellaneous:		
	Subtotal:	\$0.00
Mobilization:		
Construction - 0.81% of total Costs = \$43.46		
surfacing = 0% \$0.00		
	Subtotal:	\$43.46
Quarry Development:		
	Subtotal:	\$0.00
	Total:	\$1,175.56

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Oh Henry TS	Sale Date: Sept 2017	
Road Number: 32-9-16.1A	Road Name: Wallace Crk	
Road Renovation: 0.45 mi	16 ft Subgrade 2 ft ditch	
200 Clearing and Grubbing: 0.5 acres		\$613.79
300 Excavation:		\$0.00
400 Drainage:		\$0.00
Culvert: 0 lf		
DownSpout: 0 lf		
PolyPipe: 0 lf		
500 Renovation:		\$623.61
Blading 0.45 mi		
700-1200 Surfacing:		\$0.00
1300 Geotextiles:		\$0.00
1400 Slope Protection:		\$0.00
1800 Soil Stabilization: 0.0 acres		\$0.00
1900 Cattleguards:		\$0.00
2100 RoadSide Brushing (Manual):1.1 acres		\$729.70
2300 Engineering: 0.00 sta.		\$0.00
2400 Minor Concrete:		\$0.00
2500 Gabions:		\$0.00
8000 Miscellaneous:		\$100.00
Mobilization: Const. \$79.36 Surf. \$0.00		\$79.36
Quarry Development:		\$0.00
	Total:	\$2,146.45

Notes:

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

Road Construction Worksheet

Road Number: 32-9-16.1A Road Name: Wallace Crk

Section 200 Clearing and Grubbing:
 Clearing - Brush (Clearing): Adjustment Factor (0)

1-15% (Avg Side Slopes): Adjustment Factor (0)
 Pile and Burn (Slash): Adjustment Factor (1.28)
 less than 20' (Avg Clearing Widths): Adjustment Factor (0.25)
 Total Adjustment Factor: $0 + 0 + 1.28 + 0.25 = 1.53$
 Base Cost/Acre: \$891.49 x Adjustment Factor: 1.53 x Total Acres: .45 = \$613.79
 Subtotal: \$613.79

Section 300 Excavation: Subtotal: \$0.00
 Section 400 Drainage: Subtotal: \$0.00

Section 500 Renovation:
 Blading: $\$694.50/\text{mi} \times 0.45 \text{ mi} = \312.53
 Compaction: $\$325.47/\text{mi} \times 0.45 \text{ mi} = \146.46
 Clean Culverts: $\$365.82/\text{mi} \times 0.45 \text{ mi} = \164.62
 Subtotal: \$623.61

Section 700-1200 Surfacing:
 Surfacing: Subtotal: \$0.00
 Section 1300 Geotextiles: Subtotal: \$0.00
 Section 1400 Slope Protection: Subtotal: \$0.00
 Section 1800 Soil Stabilization: Subtotal: \$0.00
 Section 1900 Cattleguards: Subtotal: \$0.00

Section 2100 Roadside Brushing:
 Manual Brushing
 RoadSide Brushing Medium: $\$663.36/\text{acre} \times 1.10 \text{ acres} = \729.70
 Subtotal: \$729.70

Section 2300 Engineering: Subtotal: \$0.00
 Section 2400 Minor Concrete: Subtotal: \$0.00
 Section 2500 Gabions: Subtotal: \$0.00

Section 8000 Miscellaneous:
 Sediment Reduction
 Sediment Filter: $5 \text{ EA} \times \$20.00/\text{EA} = \100.00
 Subtotal: \$100.00

Mobilization:
 Construction - 1.49% of total Costs = \$79.36
 surfacing = 0% \$0.00
 Subtotal: \$79.36

Quarry Development: Subtotal: \$0.00
 Total: \$2,146.45

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Oh Henry TS Sale Date: Sept 2017
Road Number: 32-9-16.1B Road Name: Wallace Crk
 Road Renovation: 0.20 mi 16 ft Subgrade 2 ft ditch
 200 Clearing and Grubbing: 0.2 acres \$272.80
 300 Excavation: \$0.00
 400 Drainage: \$0.00
 Culvert: 0 lf
 DownSpout: 0 lf
 PolyPipe: 0 lf
 500 Renovation: \$277.16
 Blading 0.20 mi
 700-1200 Surfacing: \$0.00
 1300 Geotextiles: \$0.00

1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing (Manual):0.5 acres	\$331.68
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$40.00
Mobilization: Const. \$35.38 Surf. \$0.00.....	\$35.38
Quarry Development:	\$0.00
Total:	\$957.02

Notes:

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

Road Construction Worksheet

Road Number: 32-9-16.1B Road Name: Wallace Crk

Section 200 Clearing and Grubbing:

Clearing - Brush (Clearing): Adjustment Factor (0)

1-15% (Avg Side Slopes): Adjustment Factor (0)

Pile and Burn (Slash): Adjustment Factor (1.28)

less than 20' (Avg Clearing Widths): Adjustment Factor (0.25)

Total Adjustment Factor:0 + 0 + 1.28 + 0.25 = 1.53

Base Cost/Acre: \$891.49 x Adjustment Factor: 1.53 x Total Acres: .20 = \$272.80

Subtotal: \$272.80

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Blading: \$694.50/mi x 0.20 mi = \$138.90

Compaction: \$325.47/mi x 0.20 mi = \$65.09

Clean Culverts: \$365.82/mi x 0.20 mi = \$73.16

Subtotal: \$277.16

Section 700-1200 Surfacing:

Surfacing:

Subtotal: \$0.00

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Subtotal: \$0.00

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

Manual Brushing

RoadSide Brushing Medium: \$663.36/acre x 0.50 acres = \$331.68

Subtotal: \$331.68

Section 2300 Engineering:

Subtotal: \$0.00

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Sediment Reduction

Sediment Filter 2 EA x \$20.00/EA = \$40.00

Subtotal: \$40.00

Mobilization:
Construction - 0.66% of total Costs = \$35.38
surfacing = 0% \$0.00

Subtotal: \$35.38

Quarry Development:

Subtotal: \$0.00

Total: \$957.02

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Oh Henry TS	Sale Date: Sept 2017
Road Number: 32-9-16.1C	Road Name: Wallace Crk
Road Renovation: 0.30 mi	16 ft Subgrade 2 ft ditch
200 Clearing and Grubbing: 0.3 acres	\$409.19
300 Excavation:	\$0.00
400 Drainage:	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	\$415.74
Blading 0.30 mi	
700-1200 Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing (Manual):0.7 acres	\$464.35
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$60.00
Mobilization: Const. \$51.80 Surf. \$0.00	\$51.80
Quarry Development:	\$0.00
Total:	\$1,401.08

Notes:

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

Road Construction Worksheet

Road Number: 32-9-16.1C Road Name: Wallace Crk

Section 200 Clearing and Grubbing:

Clearing - Brush (Clearing): Adjustment Factor (0)
1-15% (Avg Side Slopes): Adjustment Factor (0)
Pile and Burn (Slash): Adjustment Factor (1.28)
less than 20' (Avg Clearing Widths): Adjustment Factor (0.25)
Total Adjustment Factor: 0 + 0 + 1.28 + 0.25 = 1.53
Base Cost/Acre: \$891.49 x Adjustment Factor: 1.53 x Total Acres: .30 = \$409.19
Subtotal: \$409.19

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

	Subtotal:	\$0.00
Section 500 Renovation:		
Blading: \$694.50/mi x 0.30 mi = \$208.35		
Compaction: \$325.47/mi x 0.30 mi = \$97.64		
Clean Culverts: \$365.82/mi x 0.30 mi = \$109.75		
	Subtotal:	\$415.74
Section 700-1200 Surfacing:		
Surfacing:		
	Subtotal:	\$0.00
Section 1300 Geotextiles:		
	Subtotal:	\$0.00
Section 1400 Slope Protection:		
	Subtotal:	\$0.00
Section 1800 Soil Stabilization:		
	Subtotal:	\$0.00
Section 1900 Cattleguards:		
	Subtotal:	\$0.00
Section 2100 Roadside Brushing:		
Manual Brushing		
RoadSide Brushing Medium: \$663.36/acre x 0.70 acres = \$464.35		
	Subtotal:	\$464.35
Section 2300 Engineering:		
	Subtotal:	\$0.00
Section 2400 Minor Concrete:		
	Subtotal:	\$0.00
Section 2500 Gabions:		
	Subtotal:	\$0.00
Section 8000 Miscellaneous:		
Sediment Reduction		
Sediment Filter 3 EA x \$20.00/EA = \$60.00		
	Subtotal:	\$60.00
Mobilization:		
Construction - 0.97% of total Costs = \$51.80		
surfacing = 0% \$0.00		
	Subtotal:	\$51.80
Quarry Development:		
	Subtotal:	\$0.00
	Total:	\$1,401.08

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Oh Henry TS	Sale Date: Sept 2017	
Road Number: 32-9-16.1D	Road Name: Wallace Crk	
Road Renovation: 1.36 mi	16 ft Subgrade 2 ft ditch	
200 Clearing and Grubbing: 1.4 acres		\$1,855.01
300 Excavation:		\$0.00
400 Drainage:		\$0.00
Culvert: 0 lf		
DownSpout: 0 lf		
PolyPipe: 0 lf		
500 Renovation:		\$1,884.67
Blading 1.36 mi		
700-1200 Surfacing:		\$0.00
1300 Geotextiles:		\$0.00
1400 Slope Protection:		\$0.00
1800 Soil Stabilization: 0.0 acres		\$0.00
1900 Cattleguards:		\$0.00
2100 RoadSide Brushing (Manual): 3.3 acres		\$2,189.09
2300 Engineering: 0.00 sta.		\$0.00

2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$280.00
Mobilization: Const. \$238.36 Surf. \$0.00.....	\$238.36
Quarry Development:	\$0.00
Total:	\$6,447.13

Notes:

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

Road Construction Worksheet

Road Number: 32-9-16.1D Road Name: Wallace Crk

Section 200 Clearing and Grubbing:

Clearing - Brush (Clearing): Adjustment Factor (0)
 1-15% (Avg Side Slopes): Adjustment Factor (0)
 Pile and Burn (Slash): Adjustment Factor (1.28)
 less than 20' (Avg Clearing Widths): Adjustment Factor (0.25)
 Total Adjustment Factor: $0 + 0 + 1.28 + 0.25 = 1.53$
 Base Cost/Acre: \$891.49 x Adjustment Factor: 1.53 x Total Acres: 1.36 = \$1,855.01
 Subtotal: \$1,855.01

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Blading: \$694.50/mi x 1.36 mi = \$944.52
 Compaction: \$325.47/mi x 1.36 mi = \$442.64
 Clean Culverts: \$365.82/mi x 1.36 mi = \$497.52
 Subtotal: \$1,884.67

Section 700-1200 Surfacing:

Surfacing:
 Subtotal: \$0.00

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Subtotal: \$0.00

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

Manual Brushing
 RoadSide Brushing Medium: \$663.36/acre x 3.30 acres = \$2,189.09
 Subtotal: \$2,189.09

Section 2300 Engineering:

Subtotal: \$0.00

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Sediment Reduction
 Sediment Filter 14 EA x \$20.00/EA = \$280.00
 Subtotal: \$280.00

Mobilization:

Construction - 4.47% of total Costs = \$238.36
 surfacing = 0% \$0.00
 Subtotal: \$238.36

Quarry Development:

Subtotal: \$0.00

Total: \$6,447.13

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Oh Henry TS Sale Date: Sept 2017

Road Number: 32-9-16.2 A Road Name: Slide Crk

Road Renovation: 0.60 mi 16 ft Subgrade 2 ft ditch

200 Clearing and Grubbing: 0.6 acres	\$818.39
300 Excavation:	\$0.00
400 Drainage:	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	\$219.49
700-1200 Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing (Manual):1.5 acres	\$497.52
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$58.94 Surf. \$0.00.....	\$58.94
Quarry Development:	\$0.00
Total:	\$1,594.34

Notes:

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

Road Construction Worksheet

Road Number: 32-9-16.2 A Road Name: Slide Crk

Section 200 Clearing and Grubbing:

Clearing - Brush (Clearing): Adjustment Factor (0)

1-15% (Avg Side Slopes): Adjustment Factor (0)

Pile and Burn (Slash): Adjustment Factor (1.28)

less than 20' (Avg Clearing Widths): Adjustment Factor (0.25)

Total Adjustment Factor:0 + 0 + 1.28 + 0.25 = 1.53

Base Cost/Acre: \$891.49 x Adjustment Factor: 1.53 x Total Acres: .6 = \$818.39

Subtotal: \$818.39

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Clean Culverts: \$365.82/mi x 0.60 mi = \$219.49

Subtotal: \$219.49

Section 700-1200 Surfacing:

Surfacing:

Subtotal: \$0.00

Section 1300 Geotextiles:

Section 1400 Slope Protection:	Subtotal:	\$0.00
Section 1800 Soil Stabilization:	Subtotal:	\$0.00
Section 1900 Cattleguards:	Subtotal:	\$0.00
Section 2100 Roadside Brushing:		
Manual Brushing		
Brushing width Left: 10ft. Right: 10ft.		
RoadSide Brushing Light: \$331.68/acre x 1.50 acres = \$497.52	Subtotal:	\$497.52
Section 2300 Engineering:	Subtotal:	\$0.00
Section 2400 Minor Concrete:	Subtotal:	\$0.00
Section 2500 Gabions:	Subtotal:	\$0.00
Section 8000 Miscellaneous:	Subtotal:	\$0.00
Mobilization:		
Construction - 1.10% of total Costs = \$58.94		
surfacing = 0% \$0.00	Subtotal:	\$58.94
Quarry Development:	Subtotal:	\$0.00
	Total:	\$1,594.34

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Oh Henry TS	Sale Date: Sept 2017
Road Number: 32-9-16.2B	Road Name: Slide Crk
Road Renovation: 0.71 mi	16 ft Subgrade 2 ft ditch
200 Clearing and Grubbing: 0.7 acres	\$968.43
300 Excavation:	\$0.00
400 Drainage:	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	\$259.73
700-1200 Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing (Manual):1.7 acres	\$563.86
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$68.80 Surf. \$0.00.....	\$68.80
Quarry Development:	\$0.00
	Total: \$1,860.81

Notes:

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

Road Construction Worksheet

Road Number: 32-9-16.2B Road Name: Slide Crk

Section 200 Clearing and Grubbing:

Clearing - Brush (Clearing): Adjustment Factor (0)

1-15% (Avg Side Slopes): Adjustment Factor (0)

Pile and Burn (Slash): Adjustment Factor (1.28)

less than 20' (Avg Clearing Widths): Adjustment Factor (0.25)

Total Adjustment Factor: 0 + 0 + 1.28 + 0.25 = 1.53

Base Cost/Acre: \$891.49 x Adjustment Factor: 1.53 x Total Acres: .71 = \$968.43

Subtotal: \$968.43

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Clean Culverts: \$365.82/mi x 0.71 mi = \$259.73

Subtotal: \$259.73

Section 700-1200 Surfacing:

Surfacing:

Subtotal: \$0.00

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Subtotal: \$0.00

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

Manual Brushing

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

RoadSide Brushing Light: \$331.68/acre x 1.70 acres = \$563.86

Subtotal: \$563.86

Section 2300 Engineering:

Subtotal: \$0.00

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Subtotal: \$0.00

Mobilization:

Construction - 1.29% of total Costs = \$68.80

surfacing = 0% \$0.00

Subtotal: \$68.80

Quarry Development:

Subtotal: \$0.00

Total: \$1,860.81

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Oh Henry TS Sale Date: Sept 2017

Road Number: 32-9-16.2C

Road Name: Slide Crk

Road Renovation: 1.29 mi 16 ft Subgrade 2 ft ditch

200 Clearing and Grubbing: 1.3 acres \$1,759.53

300 Excavation: \$0.00

400 Drainage: \$0.00

Culvert: 0 lf

DownSpout: 0 lf

PolyPipe: 0 lf

500 Renovation:	\$471.91
700-1200 Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing (Manual):3.1 acres	\$1,028.21
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$125.14 Surf. \$0.00.....	\$125.14
Quarry Development:	\$0.00
Total:	\$3,384.79

Notes:

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

Road Construction Worksheet

Road Number: 32-9-16.2C Road Name: Slide Crk

Section 200 Clearing and Grubbing:

Clearing - Brush (Clearing): Adjustment Factor (0)
 1-15% (Avg Side Slopes): Adjustment Factor (0)
 Pile and Burn (Slash): Adjustment Factor (1.28)
 less than 20' (Avg Clearing Widths): Adjustment Factor (0.25)
 Total Adjustment Factor: 0 + 0 + 1.28 + 0.25 = 1.53
 Base Cost/Acre: \$891.49 x Adjustment Factor: 1.53 x Total Acres: 1.29 = \$1,759.53
 Subtotal: \$1,759.53

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Clean Culverts: \$365.82/mi x 1.29 mi = \$471.91

Subtotal: \$471.91

Section 700-1200 Surfacing:
 Surfacing:

Subtotal: \$0.00

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Subtotal: \$0.00

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:
 Manual Brushing

Brushing width Left: 10ft. Right: 10ft.
 RoadSide Brushing Light: \$331.68/acre x 3.10 acres = \$1,028.21

Subtotal: \$1,028.21

Section 2300 Engineering:

Subtotal: \$0.00

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Subtotal: \$0.00

Mobilization:

Construction - 2.34% of total Costs = \$125.14
surfacing = 0% \$0.00

Subtotal: \$125.14

Quarry Development:

Subtotal: \$0.00

Total: \$3,384.79

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Oh Henry TS `Sale Date: Sept 2017

Road Number: 32-9-16.2D

Road Name: Slide Crk

Road Renovation: 0.07 mi 16 ft Subgrade 2 ft ditch

200 Clearing and Grubbing: 0.1 acres \$163.68

300 Excavation: \$0.00

400 Drainage: \$0.00

Culvert: 0 lf

DownSpout: 0 lf

PolyPipe: 0 lf

500 Renovation: \$43.90

700-1200 Surfacing: \$0.00

1300 Geotextiles: \$0.00

1400 Slope Protection: \$0.00

1800 Soil Stabilization: 0.0 acres \$0.00

1900 Cattleguards: \$0.00

2100 RoadSide Brushing (Manual):0.3 acres \$99.50

2300 Engineering: 0.00 sta. \$0.00

2400 Minor Concrete: \$0.00

2500 Gabions: \$0.00

8000 Miscellaneous: \$0.00

Mobilization: Const. \$11.79 Surf. \$0.00..... \$11.79

Quarry Development: \$0.00

Total: \$318.87

Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are loose cubic yards.

Road Construction Worksheet

Road Number: 32-9-16.2D Road Name: Slide Crk

Section 200 Clearing and Grubbing:

Clearing - Brush (Clearing): Adjustment Factor (0)

1-15% (Avg Side Slopes): Adjustment Factor (0)

Pile and Burn (Slash): Adjustment Factor (1.28)

less than 20' (Avg Clearing Widths): Adjustment Factor (0.25)

Total Adjustment Factor:0 + 0 + 1.28 + 0.25 = 1.53

Base Cost/Acre: \$891.49 x Adjustment Factor: 1.53 x Total Acres: .12 = \$163.68

Subtotal: \$163.68

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:	Subtotal:	\$0.00
Section 500 Renovation:		
Clean Culverts: \$365.82/mi x 0.12 mi = \$43.90	Subtotal:	\$43.90
Section 700-1200 Surfacing:		
Surfacing:	Subtotal:	\$0.00
Section 1300 Geotextiles:	Subtotal:	\$0.00
Section 1400 Slope Protection:	Subtotal:	\$0.00
Section 1800 Soil Stabilization:	Subtotal:	\$0.00
Section 1900 Cattleguards:	Subtotal:	\$0.00
Section 2100 Roadside Brushing:		
Manual Brushing		
Brushing width Left: 10ft. Right: 10ft.		
RoadSide Brushing Light: \$331.68/acre x 0.30 acres = \$99.50	Subtotal:	\$99.50
Section 2300 Engineering:	Subtotal:	\$0.00
Section 2400 Minor Concrete:	Subtotal:	\$0.00
Section 2500 Gabions:	Subtotal:	\$0.00
Section 8000 Miscellaneous:	Subtotal:	\$0.00
Mobilization:		
Construction - 0.22% of total Costs = \$11.79		
surfacing = 0% \$0.00	Subtotal:	\$11.79
Quarry Development:	Subtotal:	\$0.00
	Total:	\$318.87

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Oh Henry TS	Sale Date: Sept 2017
Road Number: 32-9-16.3	Road Name: Cold Springs RdgSpur
Road Renovation: 0.04 mi	17 ft Subgrade 2 ft ditch
200 Clearing and Grubbing: acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	\$14.63
700-1200 Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing (Manual):0.1 acres	\$66.34
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00

8000 Miscellaneous:	\$0.00
Mobilization: Const. \$3.11 Surf. \$0.00.....	\$3.11
Quarry Development:	\$0.00
	Total: \$84.08

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

Road Construction Worksheet

Road Number: 32-9-16.3 Road Name: Cold Springs RdgSpur

Section 200 Clearing and Grubbing:	Subtotal:	\$0.00
Section 300 Excavation:	Subtotal:	\$0.00
Section 400 Drainage:	Subtotal:	\$0.00
Section 500 Renovation: Clean Culverts: \$365.82/mi x 0.04 mi = \$14.63	Subtotal:	\$14.63
Section 700-1200 Surfacing: Surfacing:	Subtotal:	\$0.00
Section 1300 Geotextiles:	Subtotal:	\$0.00
Section 1400 Slope Protection:	Subtotal:	\$0.00
Section 1800 Soil Stabilization:	Subtotal:	\$0.00
Section 1900 Cattleguards:	Subtotal:	\$0.00
Section 2100 Roadside Brushing: Manual Brushing RoadSide Brushing Medium: \$663.36/acre x 0.10 acres = \$66.34	Subtotal:	\$66.34
Section 2300 Engineering:	Subtotal:	\$0.00
Section 2400 Minor Concrete:	Subtotal:	\$0.00
Section 2500 Gabions:	Subtotal:	\$0.00
Section 8000 Miscellaneous:	Subtotal:	\$0.00
Mobilization: Construction - 0.06% of total Costs = \$3.11 surfacing = 0% \$0.00	Subtotal:	\$3.11
Quarry Development:	Subtotal:	\$0.00
	Total:	\$84.08

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Oh Henry TS	Sale Date: Sept 2017
Road Number: 32-9-16.4	Road Name: Unknown
Road Renovation: 0.27 mi	14 ft Subgrade 0 ft ditch
200 Clearing and Grubbing: acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:	\$0.00
Culvert: 0 lf	

DownSpout: 0 lf
PolyPipe: 0 lf

500 Renovation:	\$203.68
Blading 0.27 mi	
700-1200 Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing (Manual):0.3 acres	\$199.01
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$15.46 Surf. \$0.00.....	\$15.46
Quarry Development:	\$0.00
	Total: \$418.15

Notes:

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

Road Construction Worksheet

Road Number: 32-9-16.4 Road Name: Unknown

Section 200 Clearing and Grubbing:	Subtotal:	\$0.00
Section 300 Excavation:	Subtotal:	\$0.00
Section 400 Drainage:	Subtotal:	\$0.00
Section 500 Renovation:		
Blading w/o Ditches: \$428.91/mi x 0.27 mi = \$115.81		
Compaction: \$325.47/mi x 0.27 mi = \$87.88	Subtotal:	\$203.68
Section 700-1200 Surfacing:		
Surfacing:	Subtotal:	\$0.00
Section 1300 Geotextiles:	Subtotal:	\$0.00
Section 1400 Slope Protection:	Subtotal:	\$0.00
Section 1800 Soil Stabilization:	Subtotal:	\$0.00
Section 1900 Cattleguards:	Subtotal:	\$0.00
Section 2100 Roadside Brushing:		
Manual Brushing		
RoadSide Brushing Medium: \$663.36/acre x 0.30 acres = \$199.01	Subtotal:	\$199.01
Section 2300 Engineering:	Subtotal:	\$0.00
Section 2400 Minor Concrete:	Subtotal:	\$0.00
Section 2500 Gabions:	Subtotal:	\$0.00
Section 8000 Miscellaneous:	Subtotal:	\$0.00

Mobilization:
Construction - 0.29% of total Costs = \$15.46
surfacing = 0% \$0.00

Subtotal: \$15.46

Quarry Development:

Subtotal: \$0.00

Total: \$418.15

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Oh Henry TS Sale Date: Sept 2017

Road Number: 32-9-16.5 Road Name:

Road Renovation: 0.13 mi 14 ft Subgrade 0 ft ditch

200 Clearing and Grubbing: acres \$0.00

300 Excavation: \$0.00

400 Drainage: \$0.00

Culvert: 0 lf

DownSpout: 0 lf

PolyPipe: 0 lf

500 Renovation: \$98.07

Blading 0.13 mi

700-1200 Surfacing: \$0.00

1300 Geotextiles: \$0.00

1400 Slope Protection: \$0.00

1800 Soil Stabilization: 0.0 acres \$0.00

1900 Cattleguards: \$0.00

2100 RoadSide Brushing (Manual):0.1 acres \$66.34

2300 Engineering: 0.00 sta. \$0.00

2400 Minor Concrete: \$0.00

2500 Gabions: \$0.00

8000 Miscellaneous: \$0.00

Mobilization: Const. \$6.31 Surf. \$0.00..... \$6.31

Quarry Development: \$0.00

Total: \$170.72

Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are loose cubic yards.

Road Construction Worksheet

Road Number: 32-9-16.5

Road Name:

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Blading w/o Ditches: \$428.91/mi x 0.13 mi = \$55.76

Compaction: \$325.47/mi x 0.13 mi = \$42.31

Subtotal: \$98.07

Section 700-1200 Surfacing:

Surfacing:	Subtotal:	\$0.00
Section 1300 Geotextiles:	Subtotal:	\$0.00
Section 1400 Slope Protection:	Subtotal:	\$0.00
Section 1800 Soil Stabilization:	Subtotal:	\$0.00
Section 1900 Cattleguards:	Subtotal:	\$0.00
Section 2100 Roadside Brushing:		
Manual Brushing		
RoadSide Brushing Medium: \$663.36/acre x 0.10 acres = \$66.34	Subtotal:	\$66.34
Section 2300 Engineering:	Subtotal:	\$0.00
Section 2400 Minor Concrete:	Subtotal:	\$0.00
Section 2500 Gabions:	Subtotal:	\$0.00
Section 8000 Miscellaneous:	Subtotal:	\$0.00
Mobilization:		
Construction - 0.12% of total Costs = \$6.31		
surfacing = 0% \$0.00	Subtotal:	\$6.31
Quarry Development:	Subtotal:	\$0.00
	Total:	\$170.72

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Oh Henry TS Sale Date: Sept 2017	
Road Number: 32-9-2.0 Road Name: Switch Finger	
Road Renovation: 0.32 mi 14 ft Subgrade 0 ft ditch	
200 Clearing and Grubbing: acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	\$241.40
Blading 0.32 mi	
700-1200 Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing (Manual):0.3 acres	\$199.01
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$60.00
Mobilization: Const. \$19.21 Surf. \$0.00.....	\$19.21
Quarry Development:	\$0.00
Total:	\$519.62

Notes:

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

Road Construction Worksheet

Road Number: 32-9-2.0

Road Name: Switch Finger

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Blading w/o Ditches: \$428.91/mi x 0.32 mi = \$137.25

Compaction: \$325.47/mi x 0.32 mi = \$104.15

Subtotal: \$241.40

Section 700-1200 Surfacing:

Surfacing:

Subtotal: \$0.00

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Subtotal: \$0.00

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

Manual Brushing

RoadSide Brushing Medium: \$663.36/acre x 0.30 acres = \$199.01

Subtotal: \$199.01

Section 2300 Engineering:

Subtotal: \$0.00

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Sediment Reduction

Sediment Filter 20 EA x \$3.00/EA = \$60.00

Subtotal: \$60.00

Mobilization:

Construction - 0.36% of total Costs = \$19.21

surfacing = 0% \$0.00

Subtotal: \$19.21

Quarry Development:

Subtotal: \$0.00

Total: \$519.62

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Oh Henry TS Sale Date: Sept 2017

Road Number: 32-9-2.1 Road Name: Gregory 135

Road Renovation: 0.13 mi 14 ft Subgrade 0 ft ditch

200 Clearing and Grubbing: acres \$0.00

300 Excavation: \$0.00

400 Drainage: \$0.00

Culvert: 0 lf

DownSpout: 0 lf

PolyPipe: 0 lf

500 Renovation:	\$98.07
Blading 0.13 mi	
700-1200 Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing (Manual):0.1 acres	\$66.34
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$6.31 Surf. \$0.00.....	\$6.31
Quarry Development:	\$0.00
	Total: \$170.72

Notes:

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

Road Construction Worksheet

Road Number: 32-9-2.1

Road Name: Gregory 135

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

 Blading w/o Ditches: \$428.91/mi x 0.13 mi = \$55.76

 Compaction: \$325.47/mi x 0.13 mi = \$42.31

Subtotal: \$98.07

Section 700-1200 Surfacing:

Surfacing:

Subtotal: \$0.00

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Subtotal: \$0.00

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

Manual Brushing

 RoadSide Brushing Medium: \$663.36/acre x 0.10 acres = \$66.34

Subtotal: \$66.34

Section 2300 Engineering:

Subtotal: \$0.00

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Subtotal: \$0.00

Mobilization:

Construction - 0.12% of total Costs = \$6.31

surfacing = 0%	\$0.00	Subtotal:	\$6.31
Quarry Development:		Subtotal:	\$0.00
		Total:	\$170.72

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Oh Henry TS	Sale Date: Sept 2017	
Road Number: 32-9-3.0A	Road Name: Bobby Walker	
Road Renovation: 0.30 mi	14 ft Subgrade 2 ft ditch	
200 Clearing and Grubbing: 0.3 acres		\$409.19
300 Excavation:		\$0.00
400 Drainage:		\$0.00
Culvert: 0 lf		
DownSpout: 0 lf		
PolyPipe: 0 lf		
500 Renovation:		\$415.74
Blading 0.30 mi		
700-1200 Surfacing:		\$0.00
1300 Geotextiles:		\$0.00
1400 Slope Protection:		\$0.00
1800 Soil Stabilization: 0.0 acres		\$0.00
1900 Cattleguards:		\$0.00
2100 RoadSide Brushing (Manual):0.7 acres		\$464.35
2300 Engineering: 0.00 sta.		\$0.00
2400 Minor Concrete:		\$0.00
2500 Gabions:		\$0.00
8000 Miscellaneous:		\$0.00
Mobilization: Const. \$49.50 Surf. \$0.00		\$49.50
Quarry Development:		\$0.00
	Total:	\$1,338.78

Notes:

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

Road Construction Worksheet

Road Number: 32-9-3.0A Road Name: Bobby Walker

Section 200 Clearing and Grubbing:

Clearing - Brush (Clearing): Adjustment Factor (0)	
1-15% (Avg Side Slopes): Adjustment Factor (0)	
Pile and Burn (Slash): Adjustment Factor (1.28)	
less than 20' (Avg Clearing Widths): Adjustment Factor (0.25)	
Total Adjustment Factor: 0 + 0 + 1.28 + 0.25 = 1.53	
Base Cost/Acre: \$891.49 x Adjustment Factor: 1.53 x Total Acres: .3 = \$409.19	
	Subtotal: \$409.19

Section 300 Excavation:	Subtotal: \$0.00
Section 400 Drainage:	Subtotal: \$0.00

Section 500 Renovation:	
Blading: \$694.50/mi x 0.30 mi = \$208.35	
Compaction: \$325.47/mi x 0.30 mi = \$97.64	
Clean Culverts: \$365.82/mi x 0.30 mi = \$109.75	
	Subtotal: \$415.74
Section 700-1200 Surfacing:	
Surfacing:	Subtotal: \$0.00
Section 1300 Geotextiles:	Subtotal: \$0.00
Section 1400 Slope Protection:	Subtotal: \$0.00
Section 1800 Soil Stabilization:	Subtotal: \$0.00
Section 1900 Cattleguards:	Subtotal: \$0.00
Section 2100 Roadside Brushing:	
Manual Brushing	
RoadSide Brushing Medium: \$663.36/acre x 0.70 acres = \$464.35	Subtotal: \$464.35
Section 2300 Engineering:	Subtotal: \$0.00
Section 2400 Minor Concrete:	Subtotal: \$0.00
Section 2500 Gabions:	Subtotal: \$0.00
Section 8000 Miscellaneous:	Subtotal: \$0.00
Mobilization:	
Construction - 0.93% of total Costs = \$49.50	
surfacing = 0% \$0.00	
	Subtotal: \$49.50
Quarry Development:	Subtotal: \$0.00
	Total: \$1,338.78

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Oh Henry TS	Sale Date: Sept 2017
Road Number: 32-9-3.0B	Road Name: Bobby Walker
Road Renovation: 0.51 mi	14 ft Subgrade 2 ft ditch
200 Clearing and Grubbing: 0.5 acres	\$695.63
300 Excavation:	\$0.00
400 Drainage:	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	\$706.75
Blading 0.51 mi	
700-1200 Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing (Manual):1.2 acres	\$796.03
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00

8000 Miscellaneous:	\$0.00
Mobilization: Const. \$84.40 Surf. \$0.00.....	\$84.40
Quarry Development:	\$0.00
Total:	\$2,282.81

Notes:

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

Road Construction Worksheet

Road Number: 32-9-3.0B Road Name: Bobby Walker

Section 200 Clearing and Grubbing:

Clearing - Brush (Clearing): Adjustment Factor (0)	
1-15% (Avg Side Slopes): Adjustment Factor (0)	
Pile and Burn (Slash): Adjustment Factor (1.28)	
less than 20' (Avg Clearing Widths): Adjustment Factor (0.25)	
Total Adjustment Factor: 0 + 0 + 1.28 + 0.25 = 1.53	
Base Cost/Acre: \$891.49 x Adjustment Factor: 1.53 x Total Acres: 0.51 = \$695.63	
Subtotal:	\$695.63

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Blading: \$694.50/mi x 0.51 mi = \$354.20	
Compaction: \$325.47/mi x 0.51 mi = \$165.99	
Clean Culverts: \$365.82/mi x 0.51 mi = \$186.57	
Subtotal:	\$706.75

Section 700-1200 Surfacing:
 Surfacing:

Subtotal: \$0.00

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Subtotal: \$0.00

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:
 Manual Brushing

RoadSide Brushing Medium: \$663.36/acre x 1.20 acres = \$796.03	
Subtotal:	\$796.03

Section 2300 Engineering:

Subtotal: \$0.00

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Subtotal: \$0.00

Mobilization:

Construction - 1.58% of total Costs = \$84.40	
surfacing = 0% \$0.00	
Subtotal:	\$84.40

Quarry Development:

Subtotal: \$0.00

Total: \$2,282.81

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Oh Henry TS Sale Date: Sept 2017
Road Number: 32-9-3.0C Road Name: Bobby Walker
Road Renovation: 0.46 mi 14 ft Subgrade 2 ft ditch

200 Clearing and Grubbing: 0.5 acres	\$627.43
300 Excavation:	\$0.00
400 Drainage:	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	\$637.46
Blading 0.46 mi	
700-1200 Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing (Manual):1.1 acres	\$729.70
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$76.57 Surf. \$0.00.....	\$76.57
Quarry Development:	\$0.00
Total:	\$2,071.16

Notes:

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

Road Construction Worksheet

Road Number: 32-9-3.0C Road Name: Bobby Walker

Section 200 Clearing and Grubbing:

Clearing - Brush (Clearing): Adjustment Factor (0)
1-15% (Avg Side Slopes): Adjustment Factor (0)
Pile and Burn (Slash): Adjustment Factor (1.28)
less than 20' (Avg Clearing Widths): Adjustment Factor (0.25)
Total Adjustment Factor: 0 + 0 + 1.28 + 0.25 = 1.53
Base Cost/Acre: \$891.49 x Adjustment Factor: 1.53 x Total Acres: .46 = \$627.43
Subtotal: \$627.43

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Blading: \$694.50/mi x 0.46 mi = \$319.47
Compaction: \$325.47/mi x 0.46 mi = \$149.72
Clean Culverts: \$365.82/mi x 0.46 mi = \$168.28
Subtotal: \$637.46

Section 700-1200 Surfacing:
Surfacing:

Subtotal: \$0.00

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Subtotal: \$0.00

Section 1900 Cattleguards:	Subtotal:	\$0.00
Section 2100 Roadside Brushing:		
Manual Brushing		
RoadSide Brushing Medium: \$663.36/acre x 1.10 acres = \$729.70	Subtotal:	\$729.70
Section 2300 Engineering:	Subtotal:	\$0.00
Section 2400 Minor Concrete:	Subtotal:	\$0.00
Section 2500 Gabions:	Subtotal:	\$0.00
Section 8000 Miscellaneous:	Subtotal:	\$0.00
Mobilization:		
Construction - 1.43% of total Costs = \$76.57		
surfacing = 0% \$0.00	Subtotal:	\$76.57
Quarry Development:	Subtotal:	\$0.00
	Total:	\$2,071.16

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Oh Henry TS	Sale Date: Sept 2017	
Road Number: 32-9-3.0D	Road Name: Bobby Walker	
Road Renovation: 2.94 mi	14 ft Subgrade 2 ft ditch	
200 Clearing and Grubbing: 1.5 acres		\$2,045.97
300 Excavation:		\$0.00
400 Drainage:		\$0.00
Culvert: 0 lf		
DownSpout: 0 lf		
PolyPipe: 0 lf		
500 Renovation:		\$0.00
700-1200 Surfacing:		\$0.00
1300 Geotextiles:		\$0.00
1400 Slope Protection:		\$0.00
1800 Soil Stabilization: 0.0 acres		\$0.00
1900 Cattleguards:		\$0.00
2100 RoadSide Brushing (Manual):0.9 acres		\$597.02
2300 Engineering: 0.00 sta.		\$0.00
2400 Minor Concrete:		\$0.00
2500 Gabions:		\$0.00
8000 Miscellaneous:		\$0.00
Mobilization: Const. \$101.47 Surf. \$0.00.....		\$101.47
Quarry Development:		\$0.00
	Total:	\$2,744.46

Notes:

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

Road Number: 32-9-3.0 D

Road Name: Bobby Walker

Section 200 Clearing and Grubbing:

Clearing - Brush (Clearing): Adjustment Factor (0)

1-15% (Avg Side Slopes): Adjustment Factor (0)

Pile and Burn (Slash): Adjustment Factor (1.28)

less than 20' (Avg Clearing Widths): Adjustment Factor (0.25)

Total Adjustment Factor: $0 + 0 + 1.28 + 0.25 = 1.53$

Base Cost/Acre: \$891.49 x Adjustment Factor: 1.53 x Total Acres: 1.50 = \$2,045.97

Subtotal: \$2,045.97

Section 300 Excavation:

Subtotal: \$0.00

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:

Subtotal: \$0.00

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

Manual Brushing

RoadSide Brushing Medium: \$663.36/acre x 0.90 acres = \$597.02

Subtotal: \$597.02

Section 2300 Engineering:

Subtotal: \$0.00

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Subtotal: \$0.00

Mobilization:

Construction - 1.90% of total Costs = \$101.47

surfacing = 0% \$0.00

Subtotal: \$101.47

Quarry Development:

Subtotal: \$0.00

Total: \$2,744.46

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Oh Henry TS Sale Date: Sept 2017

Road Number: 32-9-7.0A Road Name: Wilson Crk

Road Renovation: 0.24 mi 16 ft Subgrade 2 ft ditch

200 Clearing and Grubbing: acres \$0.00

300 Excavation: \$0.00

400 Drainage: \$0.00

Culvert: 0 lf

DownSpout: 0 lf

PolyPipe: 0 lf

500 Renovation: \$332.59

Blading 0.24 mi

700-1200 Surfacing: \$0.00

1300 Geotextiles: \$0.00

1400 Slope Protection: \$0.00

1800 Soil Stabilization: 0.0 acres \$0.00

1900 Cattleguards:	\$0.00
2100 RoadSide Brushing (Manual):0.2 acres	\$132.67
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$40.00
Mobilization: Const. \$19.40 Surf. \$0.00.....	\$19.40
Quarry Development:	\$0.00
Total:	\$524.66

Notes:

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

Road Construction Worksheet

Road Number: 32-9-7.0A Road Name: Wilson Crk

Section 200 Clearing and Grubbing:	Subtotal:	\$0.00
Section 300 Excavation:	Subtotal:	\$0.00
Section 400 Drainage:	Subtotal:	\$0.00
Section 500 Renovation:		
Blading: \$694.50/mi x 0.24 mi = \$166.68		
Compaction: \$325.47/mi x 0.24 mi = \$78.11		
Clean Culverts: \$365.82/mi x 0.24 mi = \$87.80	Subtotal:	\$332.59
Section 700-1200 Surfacing:		
Surfacing:	Subtotal:	\$0.00
Section 1300 Geotextiles:	Subtotal:	\$0.00
Section 1400 Slope Protection:	Subtotal:	\$0.00
Section 1800 Soil Stabilization:	Subtotal:	\$0.00
Section 1900 Cattleguards:	Subtotal:	\$0.00
Section 2100 Roadside Brushing:		
Manual Brushing		
RoadSide Brushing Medium: \$663.36/acre x 0.20 acres = \$132.67	Subtotal:	\$132.67
Section 2300 Engineering:	Subtotal:	\$0.00
Section 2400 Minor Concrete:	Subtotal:	\$0.00
Section 2500 Gabions:	Subtotal:	\$0.00
Section 8000 Miscellaneous:		
Sediment Reduction		
Sediment Filter 2 EA x \$20.00/EA = \$40.00	Subtotal:	\$40.00
Mobilization:		
Construction - 0.36% of total Costs = \$19.40		
surfacing = 0% \$0.00	Subtotal:	\$19.40
Quarry Development:	Subtotal:	\$0.00
Total:		\$524.66

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Oh Henry TS	Sale Date: Sept 2017
Road Number: 32-9-7.0B	Road Name: Wilson Crk
Road Renovation: 0.66 mi	16 ft Subgrade 2 ft ditch
200 Clearing and Grubbing: acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	\$914.62
Blading 0.66 mi	
700-1200 Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing (Manual):0.6 acres	\$398.02
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$140.00
Mobilization: Const. \$55.77 Surf. \$0.00.....	\$55.77
Quarry Development:	\$0.00
	Total: \$1,508.40

Notes:

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

Road Construction Worksheet

Road Number: 32-9-7.0B	Road Name: Wilson Crk
Section 200 Clearing and Grubbing:	Subtotal: \$0.00
Section 300 Excavation:	Subtotal: \$0.00
Section 400 Drainage:	Subtotal: \$0.00
Section 500 Renovation:	
Blading: \$694.50/mi x 0.66 mi = \$458.37	
Compaction: \$325.47/mi x 0.66 mi = \$214.81	
Clean Culverts: \$365.82/mi x 0.66 mi = \$241.44	
	Subtotal: \$914.62
Section 700-1200 Surfacing:	
Surfacing:	Subtotal: \$0.00
Section 1300 Geotextiles:	Subtotal: \$0.00
Section 1400 Slope Protection:	Subtotal: \$0.00
Section 1800 Soil Stabilization:	Subtotal: \$0.00

Section 1900 Cattleguards:	Subtotal:	\$0.00
Section 2100 Roadside Brushing:		
Manual Brushing		
RoadSide Brushing Medium: \$663.36/acre x 0.60 acres = \$398.02	Subtotal:	\$398.02
Section 2300 Engineering:	Subtotal:	\$0.00
Section 2400 Minor Concrete:	Subtotal:	\$0.00
Section 2500 Gabions:	Subtotal:	\$0.00
Section 8000 Miscellaneous:		
Sediment Reduction		
Sediment Filter 7 EA x \$20.00/EA = \$140.00	Subtotal:	\$140.00
Mobilization:		
Construction - 1.04% of total Costs = \$55.77		
surfacing = 0% \$0.00	Subtotal:	\$55.77
Quarry Development:	Subtotal:	\$0.00
	Total:	\$1,508.40

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Oh Henry TS	Sale Date: Sept 2017	
Road Number: 32-9-7.4 A	Road Name: Wilson Head Quarry	
Road Renovation: 0.56 mi	17 ft Subgrade 2 ft ditch	
200 Clearing and Grubbing: acres		\$0.00
300 Excavation:		\$0.00
400 Drainage:		\$0.00
Culvert: 0 lf		
DownSpout: 0 lf		
PolyPipe: 0 lf		
500 Renovation:		\$776.04
Blading 0.56 mi		
700-1200 Surfacing:		\$0.00
1300 Geotextiles:		\$0.00
1400 Slope Protection:		\$0.00
1800 Soil Stabilization: 0.0 acres		\$0.00
1900 Cattleguards:		\$0.00
2100 RoadSide Brushing (Manual):0.5 acres		\$165.84
2300 Engineering: 0.00 sta.		\$0.00
2400 Minor Concrete:		\$0.00
2500 Gabions:		\$0.00
8000 Miscellaneous:		\$0.00
Mobilization: Const. \$36.16 Surf. \$0.00.....		\$36.16
Quarry Development:		\$0.00
	Total:	\$978.04

Notes:

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

Road Construction Worksheet

Road Number: 32-9-7.4A Road Name: Wilson Head Quarry

Section 200 Clearing and Grubbing:	Subtotal:	\$0.00
Section 300 Excavation:	Subtotal:	\$0.00
Section 400 Drainage:	Subtotal:	\$0.00
Section 500 Renovation:		
Blading: \$694.50/mi x 0.56 mi = \$388.92		
Compaction: \$325.47/mi x 0.56 mi = \$182.26		
Clean Culverts: \$365.82/mi x 0.56 mi = \$204.86	Subtotal:	\$776.04
Section 700-1200 Surfacing:		
Surfacing:	Subtotal:	\$0.00
Section 1300 Geotextiles:	Subtotal:	\$0.00
Section 1400 Slope Protection:	Subtotal:	\$0.00
Section 1800 Soil Stabilization:	Subtotal:	\$0.00
Section 1900 Cattleguards:	Subtotal:	\$0.00
Section 2100 Roadside Brushing:		
Manual Brushing		
Brushing width Left: 4ft. Right: 4ft.		
RoadSide Brushing Light: \$331.68/acre x 0.50 acres = \$165.84	Subtotal:	\$165.84
Section 2300 Engineering:	Subtotal:	\$0.00
Section 2400 Minor Concrete:	Subtotal:	\$0.00
Section 2500 Gabions:	Subtotal:	\$0.00
Section 8000 Miscellaneous:	Subtotal:	\$0.00
Mobilization:		
Construction - 0.68% of total Costs = \$36.16		
surfacing = 0% \$0.00	Subtotal:	\$36.16
Quarry Development:	Subtotal:	\$0.00
	Total:	\$978.04

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Oh Henry TS	Sale Date: Sept 2017
Road Number: 32-9-7.4B	Road Name: Wilson Head Quarry
Road Renovation: 0.11 mi	17 ft Subgrade 2 ft ditch
200 Clearing and Grubbing: acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	\$152.44
Blading 0.11 mi	

700-1200 Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing (Manual):0.1 acres	\$33.17
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$7.13 Surf. \$0.00.....	\$7.13
Quarry Development:	\$0.00
Total:	\$192.73

Notes:

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

Road Construction Worksheet

Road Number: 32-9-7.4B Road Name: Wilson Head Quarry

Section 200 Clearing and Grubbing:	Subtotal:	\$0.00
Section 300 Excavation:	Subtotal:	\$0.00
Section 400 Drainage:	Subtotal:	\$0.00
Section 500 Renovation:		
Blading: \$694.50/mi x 0.11 mi = \$76.40		
Compaction: \$325.47/mi x 0.11 mi = \$35.80		
Clean Culverts: \$365.82/mi x 0.11 mi = \$40.24	Subtotal:	\$152.44
Section 700-1200 Surfacing:		
Surfacing:	Subtotal:	\$0.00
Section 1300 Geotextiles:	Subtotal:	\$0.00
Section 1400 Slope Protection:	Subtotal:	\$0.00
Section 1800 Soil Stabilization:	Subtotal:	\$0.00
Section 1900 Cattleguards:	Subtotal:	\$0.00
Section 2100 Roadside Brushing:		
Manual Brushing		
Brushing width Left: 4ft. Right: 4ft.		
RoadSide Brushing Light: \$331.68/acre x 0.10 acres = \$33.17	Subtotal:	\$33.17
Section 2300 Engineering:	Subtotal:	\$0.00
Section 2400 Minor Concrete:	Subtotal:	\$0.00
Section 2500 Gabions:	Subtotal:	\$0.00
Section 8000 Miscellaneous:	Subtotal:	\$0.00
Mobilization:		
Construction - 0.13% of total Costs = \$7.13		
surfacing = 0% \$0.00	Subtotal:	\$7.13

Quarry Development:

Subtotal: \$0.00

Total: \$192.73

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Oh Henry TS Sale Date: Sept 2017

Road Number: 32-9-7.5 Road Name: Grumbleing

Road Renovation: 0.56 mi 17 ft Subgrade 2 ft ditch

200 Clearing and Grubbing: acres \$0.00

300 Excavation: \$0.00

400 Drainage: \$0.00

Culvert: 0 lf

DownSpout: 0 lf

PolyPipe: 0 lf

500 Renovation: \$776.04

Blading 0.56 mi

700-1200 Surfacing: \$0.00

1300 Geotextiles: \$0.00

1400 Slope Protection: \$0.00

1800 Soil Stabilization: 0.0 acres \$0.00

1900 Cattleguards: \$0.00

2100 RoadSide Brushing (Manual):0.5 acres \$331.68

2300 Engineering: 0.00 sta. \$0.00

2400 Minor Concrete: \$0.00

2500 Gabions: \$0.00

8000 Miscellaneous: \$0.00

Mobilization: Const. \$42.53 Surf. \$0.00..... \$42.53

Quarry Development: \$0.00

Total: \$1,150.25

Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are loose cubic yards.

Road Construction Worksheet

Road Number: 32-9-7.5

Road Name: Grumbleing

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Blading: \$694.50/mi x 0.56 mi = \$388.92

Compaction: \$325.47/mi x 0.56 mi = \$182.26

Clean Culverts: \$365.82/mi x 0.56 mi = \$204.86

Subtotal: \$776.04

Section 700-1200 Surfacing:

Surfacing:

Section 1300 Geotextiles:	Subtotal:	\$0.00
Section 1400 Slope Protection:	Subtotal:	\$0.00
Section 1800 Soil Stabilization:	Subtotal:	\$0.00
Section 1900 Cattleguards:	Subtotal:	\$0.00
Section 2100 Roadside Brushing:		
Manual Brushing		
RoadSide Brushing Medium: \$663.36/acre x 0.50 acres = \$331.68	Subtotal:	\$331.68
Section 2300 Engineering:	Subtotal:	\$0.00
Section 2400 Minor Concrete:	Subtotal:	\$0.00
Section 2500 Gabions:	Subtotal:	\$0.00
Section 8000 Miscellaneous:	Subtotal:	\$0.00
Mobilization:		
Construction - 0.80% of total Costs = \$42.53		
surfacing = 0% \$0.00	Subtotal:	\$42.53
Quarry Development:	Subtotal:	\$0.00
	Total:	\$1,150.25

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Oh Henry TS	Sale Date: Sept 2017	
Road Number: 32-9-8.0A	Road Name: Slide Crk Spur	
Road Renovation: 0.20 mi	17 ft Subgrade 0 ft ditch	
200 Clearing and Grubbing: acres		\$0.00
300 Excavation:		\$0.00
400 Drainage:		\$0.00
Culvert: 0 lf		
DownSpout: 0 lf		
PolyPipe: 0 lf		
500 Renovation:		\$150.88
Blading 0.20 mi		
700-1200 Surfacing:		\$0.00
1300 Geotextiles:		\$0.00
1400 Slope Protection:		\$0.00
1800 Soil Stabilization: 0.0 acres		\$0.00
1900 Cattleguards:		\$0.00
2100 RoadSide Brushing (Manual):0.2 acres		\$132.67
2300 Engineering: 0.00 sta.		\$0.00
2400 Minor Concrete:		\$0.00
2500 Gabions:		\$0.00
8000 Miscellaneous:		\$0.00
Mobilization: Const. \$10.89 Surf. \$0.00.....		\$10.89
Quarry Development:		\$0.00
	Total:	\$294.43
Notes:		

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

Road Construction Worksheet

Road Number: 32-9-8.0A Road Name: Slide Crk Spur

Section 200 Clearing and Grubbing:	Subtotal:	\$0.00
Section 300 Excavation:	Subtotal:	\$0.00
Section 400 Drainage:	Subtotal:	\$0.00
Section 500 Renovation:		
Blading w/o Ditches: \$428.91/mi x 0.20 mi = \$85.78		
Compaction: \$325.47/mi x 0.20 mi = \$65.09	Subtotal:	\$150.88
Section 700-1200 Surfacing:		
Surfacing:	Subtotal:	\$0.00
Section 1300 Geotextiles:	Subtotal:	\$0.00
Section 1400 Slope Protection:	Subtotal:	\$0.00
Section 1800 Soil Stabilization:	Subtotal:	\$0.00
Section 1900 Cattleguards:	Subtotal:	\$0.00
Section 2100 Roadside Brushing:		
Manual Brushing		
RoadSide Brushing Medium: \$663.36/acre x 0.20 acres = \$132.67	Subtotal:	\$132.67
Section 2300 Engineering:	Subtotal:	\$0.00
Section 2400 Minor Concrete:	Subtotal:	\$0.00
Section 2500 Gabions:	Subtotal:	\$0.00
Section 8000 Miscellaneous:	Subtotal:	\$0.00
Mobilization:		
Construction - 0.20% of total Costs = \$10.89		
surfacing = 0% \$0.00	Subtotal:	\$10.89
Quarry Development:	Subtotal:	\$0.00
	Total:	\$294.43

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Oh Henry TS	Sale Date: Sept 2017
Road Number: 32-9-8.0B	Road Name: Slide Crk Spur
Road Renovation: 0.49 mi	17 ft Subgrade 0 ft ditch
200 Clearing and Grubbing: acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	\$248.95
Blading 0.33 mi	
700-1200 Surfacing:	\$0.00

1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing (Manual):0.3 acres	\$199.01
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$17.20 Surf. \$0.00.....	\$17.20
Quarry Development:	\$0.00
Total:	\$465.15

Notes:

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

Road Construction Worksheet

Road Number: 32-9-8.0B

Road Name: Slide Crk Spur

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Blading w/o Ditches: \$428.91/mi x 0.33 mi = \$141.54

Compaction: \$325.47/mi x 0.33 mi = \$107.41

Subtotal: \$248.95

Section 700-1200 Surfacing:

Surfacing:

Subtotal: \$0.00

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Subtotal: \$0.00

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

Manual Brushing

RoadSide Brushing Medium: \$663.36/acre x 0.30 acres = \$199.01

Subtotal: \$199.01

Section 2300 Engineering:

Subtotal: \$0.00

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Subtotal: \$0.00

Mobilization:

Construction - 0.32% of total Costs = \$17.20

surfacing = 0% \$0.00

Subtotal: \$17.20

Quarry Development:

Subtotal: \$0.00

Total: \$465.15

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Oh Henry TS Sale Date: Sept 2017
Road Number: 32-9-8.1 Road Name: Slide Crk 1
Road Renovation: 0.08 mi 17 ft Subgrade 2 ft ditch
200 Clearing and Grubbing: acres \$0.00
300 Excavation: \$0.00
400 Drainage: \$0.00
 Culvert: 0 lf
 DownSpout: 0 lf
 PolyPipe: 0 lf
500 Renovation: \$60.35
 Blading 0.08 mi
700-1200 Surfacing: \$0.00
1300 Geotextiles: \$0.00
1400 Slope Protection: \$0.00
1800 Soil Stabilization: 0.0 acres \$0.00
1900 Cattleguards: \$0.00
2100 RoadSide Brushing (Manual):0.1 acres \$66.34
2300 Engineering: 0.00 sta. \$0.00
2400 Minor Concrete: \$0.00
2500 Gabions: \$0.00
8000 Miscellaneous: \$0.00
Mobilization: Const. \$4.86 Surf. \$0.00..... \$4.86
Quarry Development: \$0.00
Total: \$131.55

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

Road Construction Worksheet

Road Number: 32-9-8.1 Road Name: Slide Crk 1
Section 200 Clearing and Grubbing: Subtotal: \$0.00
Section 300 Excavation: Subtotal: \$0.00
Section 400 Drainage: Subtotal: \$0.00
Section 500 Renovation:
 Blading w/o Ditches: \$428.91/mi x 0.08 mi = \$34.31
 Compaction: \$325.47/mi x 0.08 mi = \$26.04 Subtotal: \$60.35
Section 700-1200 Surfacing:
Surfacing: Subtotal: \$0.00
Section 1300 Geotextiles: Subtotal: \$0.00
Section 1400 Slope Protection: Subtotal: \$0.00

Section 1800 Soil Stabilization:	Subtotal:	\$0.00
Section 1900 Cattleguards:	Subtotal:	\$0.00
Section 2100 Roadside Brushing:		
Manual Brushing		
RoadSide Brushing Medium: \$663.36/acre x 0.10 acres = \$66.34	Subtotal:	\$66.34
Section 2300 Engineering:	Subtotal:	\$0.00
Section 2400 Minor Concrete:	Subtotal:	\$0.00
Section 2500 Gabions:	Subtotal:	\$0.00
Section 8000 Miscellaneous:	Subtotal:	\$0.00
Mobilization:		
Construction - 0.09% of total Costs = \$4.86		
surfacing = 0% \$0.00	Subtotal:	\$4.86
Quarry Development:	Subtotal:	\$0.00
	Total:	\$131.55

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Oh Henry TS	Sale Date: Sept 2017	
Road Number: 32-9-8.4A	Road Name: Kelsey Slide Rdg	
Road Renovation: 0.94 mi	17 ft Subgrade 0 ft ditch	
200 Clearing and Grubbing: acres		\$0.00
300 Excavation:		\$0.00
400 Drainage:		\$0.00
Culvert: 0 lf		
DownSpout: 0 lf		
PolyPipe: 0 lf		
500 Renovation:		\$709.12
Blading 0.94 mi		
700-1200 Surfacing:		\$0.00
1300 Geotextiles:		\$0.00
1400 Slope Protection:		\$0.00
1800 Soil Stabilization: 0.0 acres		\$0.00
1900 Cattleguards:		\$0.00
2100 RoadSide Brushing (Manual):0.9 acres		\$597.02
2300 Engineering: 0.00 sta.		\$0.00
2400 Minor Concrete:		\$0.00
2500 Gabions:		\$0.00
8000 Miscellaneous:		\$0.00
Mobilization: Const. \$50.14 Surf. \$0.00.....		\$50.14
Quarry Development:		\$0.00
	Total:	\$1,356.28

Notes:

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

Road Construction Worksheet

Road Number: 32-9-8.4A

Road Name: Kelsey Slide Rdg

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Blading w/o Ditches: \$428.91/mi x 0.94 mi = \$403.18

Compaction: \$325.47/mi x 0.94 mi = \$305.94

Subtotal: \$709.12

Section 700-1200 Surfacing:
Surfacing:

Subtotal: \$0.00

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Subtotal: \$0.00

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

Manual Brushing

RoadSide Brushing Medium: \$663.36/acre x 0.90 acres = \$597.02

Subtotal: \$597.02

Section 2300 Engineering:

Subtotal: \$0.00

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Subtotal: \$0.00

Mobilization:

Construction - 0.94% of total Costs = \$50.14

surfacing = 0% \$0.00

Subtotal: \$50.14

Quarry Development:

Subtotal: \$0.00

Total: \$1,356.28

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Oh Henry TS

Sale Date: Sept 2017

Road Number: 32-9-8.4B

Road Name: Kelsey Slide Rdg

Road Renovation: 0.44 mi 17 ft Subgrade 0 ft ditch

200 Clearing and Grubbing: acres \$0.00

300 Excavation: \$0.00

400 Drainage: \$0.00

Culvert: 0 lf

DownSpout: 0 lf

PolyPipe: 0 lf

500 Renovation: \$331.93

Blading 0.44 mi

700-1200 Surfacing: \$0.00

1300 Geotextiles: \$0.00

1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing (Manual):0.2 acres	\$132.67
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$17.84 Surf. \$0.00.....	\$17.84
Quarry Development:	\$0.00
Total:	\$482.44

Notes:

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

Road Construction Worksheet

Road Number: 32-9-8.4B

Road Name: Kelsey Slide Rdg

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Blading w/o Ditches: \$428.91/mi x 0.44 mi = \$188.72

Compaction: \$325.47/mi x 0.44 mi = \$143.21

Subtotal: \$331.93

Section 700-1200 Surfacing:
Surfacing:

Subtotal: \$0.00

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Subtotal: \$0.00

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:
Manual Brushing

RoadSide Brushing Medium: \$663.36/acre x 0.20 acres = \$132.67

Subtotal: \$132.67

Section 2300 Engineering:

Subtotal: \$0.00

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Subtotal: \$0.00

Mobilization:

Construction - 0.33% of total Costs = \$17.84
surfacing = 0% \$0.00

Subtotal: \$17.84

Quarry Development:

Subtotal: \$0.00

Total: \$482.44

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Oh Henry TS Sale Date: Sept 2017

Road Number: 32-9-9.1 Road Name: Middle Walker Spur

Road Renovation: 0.05 mi 17 ft Subgrade 2 ft ditch

200 Clearing and Grubbing: acres \$0.00

300 Excavation: \$0.00

400 Drainage: \$0.00

Culvert: 0 lf

DownSpout: 0 lf

PolyPipe: 0 lf

500 Renovation: \$53.02
Blading 0.05 mi

700-1200 Surfacing: \$0.00

1300 Geotextiles: \$0.00

1400 Slope Protection: \$0.00

1800 Soil Stabilization: 0.0 acres \$0.00

1900 Cattleguards: \$0.00

2100 RoadSide Brushing (Manual):0.1 acres \$66.34

2300 Engineering: 0.00 sta. \$0.00

2400 Minor Concrete: \$0.00

2500 Gabions: \$0.00

8000 Miscellaneous: \$0.00

Mobilization: Const. \$4.58 Surf. \$0.00..... \$4.58

Quarry Development: \$0.00

Total: \$123.93

Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are loose cubic yards.

Road Construction Worksheet

Road Number: 32-9-9.1 Road Name: Middle Walker Spur

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Blading: \$694.50/mi x 0.05 mi = \$34.73

Clean Culverts: \$365.82/mi x 0.05 mi = \$18.29

Subtotal: \$53.02

Section 700-1200 Surfacing: Surfacing:	Subtotal:	\$0.00
Section 1300 Geotextiles:	Subtotal:	\$0.00
Section 1400 Slope Protection:	Subtotal:	\$0.00
Section 1800 Soil Stabilization:	Subtotal:	\$0.00
Section 1900 Cattleguards:	Subtotal:	\$0.00
Section 2100 Roadside Brushing: Manual Brushing RoadSide Brushing Medium: \$663.36/acre x 0.10 acres = \$66.34	Subtotal:	\$66.34
Section 2300 Engineering:	Subtotal:	\$0.00
Section 2400 Minor Concrete:	Subtotal:	\$0.00
Section 2500 Gabions:	Subtotal:	\$0.00
Section 8000 Miscellaneous:	Subtotal:	\$0.00
Mobilization: Construction - 0.09% of total Costs = \$4.58 surfacing = 0% \$0.00	Subtotal:	\$4.58
Quarry Development:	Subtotal:	\$0.00
	Total:	\$123.93

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Oh Henry TS Sale Date: Sept 2017	
Road Number: 33-7-2.0 Road Name:	
Road Renovation: 9.71 mi 20 ft Subgrade 2 ft ditch	
200 Clearing and Grubbing: acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	\$3,552.11
700-1200 Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing (Manual):4.5 acres	\$1,492.56
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00

8000 Miscellaneous:	\$0.00
Mobilization: Const. \$193.67 Surf. \$0.00.....	\$193.67
Quarry Development:	\$0.00
Total:	\$5,238.34

Notes:

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

Road Construction Worksheet

Road Number: 33-7-2.0 Road Name:

Section 200 Clearing and Grubbing:	Subtotal:	\$0.00
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Section 300 Excavation:	Subtotal:	\$0.00
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Section 400 Drainage:	Subtotal:	\$0.00
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Section 500 Renovation:		
Clean Culverts: \$365.82/mi x 9.71 mi = \$3,552.11	Subtotal:	\$3,552.11

Section 700-1200 Surfacing:		
Surfacing:	Subtotal:	\$0.00

Section 1300 Geotextiles:	Subtotal:	\$0.00
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Section 1400 Slope Protection:	Subtotal:	\$0.00
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Section 1800 Soil Stabilization:	Subtotal:	\$0.00
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Section 1900 Cattleguards:	Subtotal:	\$0.00
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Section 2100 Roadside Brushing:		
Manual Brushing		
Brushing width Left: 4ft. Right: 4ft.		
RoadSide Brushing Light: \$331.68/acre x 4.50 acres = \$1,492.56	Subtotal:	\$1,492.56

Section 2300 Engineering:	Subtotal:	\$0.00
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Section 2400 Minor Concrete:	Subtotal:	\$0.00
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Section 2500 Gabions:	Subtotal:	\$0.00
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Section 8000 Miscellaneous:	Subtotal:	\$0.00
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Mobilization:		
Construction - 3.63% of total Costs = \$193.67		
surfacing = 0% \$0.00	Subtotal:	\$193.67

Quarry Development:	Subtotal:	\$0.00
Total:		\$5,238.34

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Oh Henry TS	Sale Date: Sept 2017
Road Number: TEMP 1-11B	Road Name: SPUR 1-11B
Road Decommission: 0.30 mi	12 ft Subgrade 0 ft ditch
200 Clearing and Grubbing: 0.6 acres	\$2,027.25
300 Excavation:	\$615.57
400 Drainage:	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	\$0.00
700-1200 Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.6 acres	\$296.41
Includes Small Quantity Factor of 1.33	
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:	\$3,958.21
Mobilization: Const. \$264.79 Surf. \$0.00	\$264.79
Quarry Development:	\$0.00
	Total: \$7,162.23

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

Road Construction Worksheet

Road Number: TEMP 1-11B Road Name: SPUR 1-11B

Section 200 Clearing and Grubbing:

Clearing - Heavy (Clearing): Adjustment Factor (2.54)
1-15% (Avg Side Slopes): Adjustment Factor (0)
Scatter (Slash): Adjustment Factor (1)
less than 20' (Avg Clearing Widths): Adjustment Factor (0.25)
Total Adjustment Factor: 2.54 + 0 + 1 + 0.25 = 3.79
Base Cost/Acre: \$891.49 x Adjustment Factor: 3.79 x Total Acres: .60 = \$2,027.25
Subtotal: \$2,027.25

Section 300 Excavation:

Subgrade Compaction: 4 Sta/hr \$27.12/sta. x 15.8 sta = \$428.50
Blading without ditch: \$11.84/station x 15.80 stations = \$187.07
Subtotal: \$615.57

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: \$494.02/acre x 0.60 acres = \$296.41
Includes Small Quantity Factor of 1.33
Subtotal: \$296.41

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:		
RECONSTRUCTION		
Tractor: D7 with rippers 8 hr x \$163.53/hr = \$1,308.24		
Chainsaw 6 hr x \$40.66/hr = \$243.96		
Mobilization 1 EA x \$250.00/EA = \$250.00		
DECOMMISSION		
Tractor: D7 with rippers 5 hr x \$163.53/hr = \$817.65		
Excavator -Small (1.5 CY) 4 hr x \$97.09/hr = \$388.36		
Mobilization 2 EA x \$250.00/EA = \$500.00		
Construct Water Bar 9 EA x \$50.00/EA = \$450.00		
	Subtotal:	\$3,958.21
Mobilization:		
Construction - 4.96% of total Costs = \$264.79		
surfacing = 0% \$0.00		
	Subtotal:	\$264.79
Quarry Development:		
	Subtotal:	\$0.00
	Total:	\$7,162.23

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Oh Henry TS	Sale Date: Sept 2017
Road Number: TEMP 16-2	Road Name: SPUR 16-2
Road Decommission: 0.13 mi	12 ft Subgrade ft ditch
200 Clearing and Grubbing: 0.3 acres	\$844.69
300 Excavation:	\$267.27
400 Drainage:	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	\$0.00
700-1200 Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.3 acres	\$123.50
Includes Small Quantity Factor of 1.33	
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:	\$2,645.80
Mobilization: Const. \$149.00 Surf. \$0.00	\$149.00
Quarry Development:	\$0.00
	Total: \$4,030.26

Notes:

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

Road Construction Worksheet

Road Number: TEMP 16-2

Road Name: SPUR 16-2

Section 200 Clearing and Grubbing:

Clearing - Heavy (Clearing): Adjustment Factor (2.54)

1-15% (Avg Side Slopes): Adjustment Factor (0)

Scatter (Slash): Adjustment Factor (1)

less than 20' (Avg Clearing Widths): Adjustment Factor (0.25)

Total Adjustment Factor: $2.54 + 0 + 1 + 0.25 = 3.79$

Base Cost/Acre: \$891.49 x Adjustment Factor: 3.79 x Total Acres: .25 = \$844.69

Subtotal: \$844.69

Section 300 Excavation:

Subgrade Compaction: 4 Sta/hr \$27.12/sta. x 6.9 sta = \$186.04

Blading without ditch: \$11.84/station x 6.86 stations = \$81.22

Subtotal: \$267.27

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: \$494.02/acre x 0.25 acres = \$123.50

Includes Small Quantity Factor of 1.33

Subtotal: \$123.50

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:

RECONSTRUCTION

Tractor: D7 with winch 4 hr x \$163.33/hr = \$653.32

Mobilization 1 EA x \$250.00/EA = \$250.00

DECOMMISSION

Tractor: D7 with rippers 4 hr x \$163.53/hr = \$654.12

Excavator -Small (1.5 CY) 4 hr x \$97.09/hr = \$388.36

Mobilization 2 EA x \$250.00/EA = \$500.00

Construct Water Bars 4 EA x \$50.00/EA = \$200.00

Subtotal: \$2,645.80

Mobilization:

Construction - 2.79% of total Costs = \$149.00

surfacing = 0% \$0.00

Subtotal: \$149.00

Quarry Development:

Subtotal: \$0.00

Total: \$4,030.26

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Oh Henry TS

Sale Date: Sept 2017

Road Number: TEMP 3-1

Road Name: SPUR 3-1

Road Decommission: 0.57 mi 12 ft Subgrade 0 ft ditch

200 Clearing and Grubbing: 1.0 acres \$3,628.36

300 Excavation: \$1,168.80

400 Drainage: \$0.00

Culvert: 0 lf
DownSpout: 0 lf
PolyPipe: 0 lf

500 Renovation:	\$0.00
700-1200 Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 1.2 acres	\$592.82
Includes Small Quantity Factor of 1.33	
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:	\$6,203.84
Mobilization: Const. \$445.09 Surf. \$0.00.....	\$445.09
Quarry Development:	\$0.00
Total:	\$12,038.91

Notes:

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

Road Construction Worksheet

Road Number: TEMP 3-1 Road Name: SPUR 3-1

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)
less than 20' (Avg Clearing Widths): Adjustment Factor (0.25)
Total Adjustment Factor: $2.54 + 0 + 1.28 + 0.25 = 4.07$
Base Cost/Acre: \$891.49 x Adjustment Factor: 4.07 x Total Acres: 1.0 = \$3,628.36

Subtotal: \$3,628.36

Section 300 Excavation:

Subgrade Compaction: 4 Sta/hr \$27.12/sta. x 30.0 sta = \$813.60
Blading without ditch: \$11.84/station x 30.00 stations = \$355.20

Subtotal: \$1,168.80

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: \$494.02/acre x 1.20 acres = \$592.82
Includes Small Quantity Factor of 1.33

Subtotal: \$592.82

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:

Section 8000 Miscellaneous:	Subtotal:	\$0.00
CONSTRUCTION		
Tractor: D7 with winch 16 hr x \$163.33/hr = \$2,613.28		
Mobilization 1 EA x \$250.00/EA = \$250.00		
Chainsaw 6 hr x \$40.66/hr = \$243.96		
DECOMMISSION		
Tractor: D7 with rippers 8 hr x \$163.53/hr = \$1,308.24		
Excavator -Small (1.5 CY) 4 hr x \$97.09/hr = \$388.36		
Mobilization 2 EA x \$250.00/EA = \$500.00		
Construct Water Bars 18 EA x \$50.00/EA = \$900.00		
	Subtotal:	\$6,203.84
Mobilization:		
Construction - 8.34% of total Costs = \$445.09		
surfacing = 0% \$0.00		
	Subtotal:	\$445.09
Quarry Development:		
	Subtotal:	\$0.00
	Total:	\$12,038.91

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Oh Henry TS	Sale Date: Sept 2017
Road Number: TEMP 33-18	Road Name: SPUR 33-18
Road Decommission: 0.18 mi 14 ft Subgrade ft ditch	
200 Clearing and Grubbing: 0.3 acres	\$1,013.62
300 Excavation:	\$350.64
400 Drainage:	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	\$0.00
700-1200 Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.3 acres	\$148.20
Includes Small Quantity Factor of 1.33	
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:	\$3,349.12
Mobilization: Const. \$186.64 Surf. \$0.00.....	\$186.64
Quarry Development:	\$0.00
	Total: \$5,048.23

Notes:

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

Road Construction Worksheet

Road Number: TEMP 33-18

Road Name: SPUR 33-18

Section 200 Clearing and Grubbing:
 Clearing - Heavy (Clearing): Adjustment Factor (2.54)
 1-15% (Avg Side Slopes): Adjustment Factor (0)
 Scatter (Slash): Adjustment Factor (1)
 less than 20' (Avg Clearing Widths): Adjustment Factor (0.25)
 Total Adjustment Factor: 2.54 + 0 + 1 + 0.25 = 3.79
 Base Cost/Acre: \$891.49 x Adjustment Factor: 3.79 x Total Acres: .30 = \$1,013.62
 Subtotal: \$1,013.62

Section 300 Excavation:
 Subgrade Compaction: 4 Sta/hr \$27.12/sta. x 9.0 sta = \$244.08
 Blading without ditch: \$11.84/station x 9.00 stations = \$106.56
 Subtotal: \$350.64

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: \$494.02/acre x 0.30 acres = \$148.20
 Includes Small Quantity Factor of 1.33
 Subtotal: \$148.20

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:
 RECONSTRUCTION
 Tractor: D7 with winch 8 hr x \$163.33/hr = \$1,306.64
 Mobilization 1 EA x \$250.00/EA = \$250.00
 DECOMMISSION
 Tractor: D7 with rippers 4 hr x \$163.53/hr = \$654.12
 Excavator -Small (1.5 CY) 4 hr x \$97.09/hr = \$388.36
 Mobilization 2 EA x \$250.00/EA = \$500.00
 Construct water Bars 5 EA x \$50.00/EA = \$250.00
 Subtotal: \$3,349.12

Mobilization:
 Construction - 3.50% of total Costs = \$186.64
 surfacing = 0% \$0.00
 Subtotal: \$186.64

Quarry Development:
 Subtotal: \$0.00
 Total: \$5,048.23

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Oh Henry TS Sale Date: Sept 2017
Road Number: TEMP 33-28 Road Name: SPUR 33-28
 Road Decommission: 0.29 mi 12 ft Subgrade ft ditch
 200 Clearing and Grubbing: 0.8 acres \$2,703.00
 300 Excavation: \$857.12
 400 Drainage: \$0.00
 Culvert: 0 lf
 DownSpout: 0 lf
 PolyPipe: 0 lf
 500 Renovation: \$0.00
 700-1200 Surfacing: \$0.00
 1300 Geotextiles: \$0.00

1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.8 acres	\$395.21
Includes Small Quantity Factor of 1.33	
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:	\$3,504.94
Mobilization: Const. \$286.40 Surf. \$0.00.....	\$286.40
Quarry Development:	\$0.00
Total:	\$7,746.67

Notes:

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

Road Construction Worksheet

Road Number: TEMP 33-28 Road Name: SPUR 33-28

Section 200 Clearing and Grubbing:

Clearing - Heavy (Clearing): Adjustment Factor (2.54)
 1-15% (Avg Side Slopes): Adjustment Factor (0)
 Scatter (Slash): Adjustment Factor (1)
 less than 20' (Avg Clearing Widths): Adjustment Factor (0.25)
 Total Adjustment Factor: 2.54 + 0 + 1 + 0.25 = 3.79
 Base Cost/Acre: \$891.49 x Adjustment Factor: 3.79 x Total Acres: .80 = \$2,703.00

Subtotal: \$2,703.00

Section 300 Excavation:

Subgrade Compaction: 4 Sta/hr \$27.12/sta. x 22.0 sta = \$596.64
 Blading without ditch: \$11.84/station x 22.00 stations = \$260.48

Subtotal: \$857.12

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: \$494.02/acre x 0.80 acres = \$395.21
 Includes Small Quantity Factor of 1.33

Subtotal: \$395.21

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:

RECONSTRUCTION

Mobilization 1 EA x \$250.00/EA = \$250.00
 Tractor: D7 with winch 8 hr x \$163.33/hr = \$1,306.64

DECOMMISSION

Mobilization 2 EA x \$250.00/EA = \$500.00
 Tractor: D7 with rippers 4 hr x \$163.53/hr = \$654.12
 Excavator -Small (1.5 CY) 2 hr x \$97.09/hr = \$194.18
 Construct water Bars 12 EA x \$50.00/EA = \$600.00

Subtotal: \$3,504.94

Mobilization:

Construction - 5.37% of total Costs = \$286.40
surfacing = 0% \$0.00

Subtotal: \$286.40

Quarry Development:

Subtotal: \$0.00

Total: \$7,746.67

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Oh Henry TS

Sale Date: Sept 2017

Road Number: TEMP 35-4

Road Name: SPUR 35-4

Road Decommission: 0.16 mi 12 ft Subgrade ft ditch

200 Clearing and Grubbing: 0.3 acres \$1,013.62

300 Excavation: \$331.16

400 Drainage: \$0.00

Culvert: 0 lf

DownSpout: 0 lf

PolyPipe: 0 lf

500 Renovation: \$0.00

700-1200 Surfacing: \$0.00

1300 Geotextiles: \$0.00

1400 Slope Protection: \$0.00

1800 Soil Stabilization: 0.3 acres \$148.20

Includes Small Quantity Factor of 1.33

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: \$3,691.54

Mobilization: Const. \$199.04 Surf. \$0.00..... \$199.04

Quarry Development: \$0.00

Total: \$5,383.56

Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are loose cubic yards.

Road Construction Worksheet

Road Number: TEMP 35-4

Road Name: SPUR 35-4

Section 200 Clearing and Grubbing:

Clearing - Heavy (Clearing): Adjustment Factor (2.54)

1-15% (Avg Side Slopes): Adjustment Factor (0)

Scatter (Slash): Adjustment Factor (1)

less than 20' (Avg Clearing Widths): Adjustment Factor (0.25)

Total Adjustment Factor: 2.54 + 0 + 1 + 0.25 = 3.79

Base Cost/Acre: \$891.49 x Adjustment Factor: 3.79 x Total Acres: 0.30 = \$1,013.62

Subtotal: \$1,013.62

Section 300 Excavation:

Subgrade Compaction: 4 Sta/hr \$27.12/sta. x 8.5 sta = \$230.52

Blading without ditch: \$11.84/station x 8.50 stations = \$100.64	Subtotal:	\$331.16
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: \$494.02/acre x 0.30 acres = \$148.20		
Includes Small Quantity Factor of 1.33	Subtotal:	\$148.20
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:		
RECONSTRUCTION		
Tractor: D7 with winch 10 hr x \$163.33/hr = \$1,633.30		
Mobilization 1 EA x \$250.00/EA = \$250.00		
DECOMMISSION		
Tractor: D7 with rippers 8 hr x \$163.53/hr = \$1,308.24		
Construct Water Bars 5 EA x \$50.00/EA = \$250.00		
Mobilization 1 EA x \$250.00/EA = \$250.00	Subtotal:	\$3,691.54
Mobilization:		
Construction - 3.73% of total Costs = \$199.04		
surfacing = 0% \$0.00	Subtotal:	\$199.04
Quarry Development:	Subtotal:	\$0.00
	Total:	\$5,383.56

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Oh Henry TS	Sale Date: Sept 2017
Road Number: TEMP 8-1	Road Name: SPUR 8-1
Road Decommission: 0.21 mi 12 ft Subgrade ft ditch	
200 Clearing and Grubbing: 0.4 acres	\$1,351.50
300 Excavation:	\$428.56
400 Drainage:	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	\$0.00
700-1200 Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.4 acres	\$197.61
Includes Small Quantity Factor of 1.33	
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:	\$2,514.53
Mobilization: Const. \$172.46 Surf. \$0.00.....	\$172.46
Quarry Development:	\$0.00
Total:	\$4,664.65

Notes:

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

Road Construction Worksheet

Road Number: TEMP 8-1

Road Name: SPUR 8-1

Section 200 Clearing and Grubbing:

Clearing - Heavy (Clearing): Adjustment Factor (2.54)

1-15% (Avg Side Slopes): Adjustment Factor (0)

Scatter (Slash): Adjustment Factor (1)

less than 20' (Avg Clearing Widths): Adjustment Factor (0.25)

Total Adjustment Factor: $2.54 + 0 + 1 + 0.25 = 3.79$

Base Cost/Acre: \$891.49 x Adjustment Factor: 3.79 x Total Acres: 0.40 = \$1,351.50

Subtotal: \$1,351.50

Section 300 Excavation:

Subgrade Compaction: 4 Sta/hr \$27.12/sta. x 11.0 sta = \$298.32

Blading without ditch: \$11.84/station x 11.00 stations = \$130.24

Subtotal: \$428.56

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: \$494.02/acre x 0.40 acres = \$197.61

Includes Small Quantity Factor of 1.33

Subtotal: \$197.61

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:

RECONSTRUCTION/CONSTRUCTION

Tractor: D7 with winch 6 hr x \$163.33/hr = \$979.98

Chainsaw 6 hr x \$40.66/hr = \$243.96

Mobilization 1 EA x \$250.00/EA = \$250.00

DECOMMISSION

Tractor: D7 with rippers 3 hr x \$163.53/hr = \$490.59

Construct Water Bars 6 EA x \$50.00/EA = \$300.00

Mobilization 1 EA x \$250.00/EA = \$250.00

Subtotal: \$2,514.53

Mobilization:

Construction - 3.23% of total Costs = \$172.46

surfacing = 0% \$0.00

Subtotal: \$172.46

Quarry Development:

Subtotal: \$0.00

Total: \$4,664.65

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Oh Henry TS	Sale Date: Sept 2017
Road Number: TEMP 8-8	Road Name: SPUR 8-8
Road Decommission: 0.18 mi 12 ft Subgrade ft ditch	
200 Clearing and Grubbing: 0.4 acres	\$1,351.50
300 Excavation:	\$370.12
400 Drainage:	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	\$0.00
700-1200 Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.4 acres	\$197.61
Includes Small Quantity Factor of 1.33	
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:	\$3,398.90
Mobilization: Const. \$204.16 Surf. \$0.00.....	\$204.16
Quarry Development:	\$0.00
Total:	\$5,522.29

Notes:

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

Road Construction Worksheet

Road Number: TEMP 8-8 Road Name: SPUR 8-8

Section 200 Clearing and Grubbing:

Clearing - Heavy (Clearing): Adjustment Factor (2.54)
 1-15% (Avg Side Slopes): Adjustment Factor (0)
 Scatter (Slash): Adjustment Factor (1)
 less than 20' (Avg Clearing Widths): Adjustment Factor (0.25)
 Total Adjustment Factor: 2.54 + 0 + 1 + 0.25 = 3.79
 Base Cost/Acre: \$891.49 x Adjustment Factor: 3.79 x Total Acres: 0.40 = \$1,351.50

Subtotal: \$1,351.50

Section 300 Excavation:

Subgrade Compaction: 4 Sta/hr \$27.12/sta. x 9.5 sta = \$257.64
 Blading without ditch: \$11.84/station x 9.50 stations = \$112.48

Subtotal: \$370.12

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: \$494.02/acre x 0.40 acres = \$197.61
Includes Small Quantity Factor of 1.33

	Subtotal:	\$197.61
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:		
RECONSTRUCTION		
Tractor: D7 with winch 8 hr x \$163.33/hr = \$1,306.64		
Chainsaw 6 hr x \$40.66/hr = \$243.96		
Mobilization 1 EA x \$250.00/EA = \$250.00		
DECOMMISSION		
Tractor: D7 with rippers 4 hr x \$163.53/hr = \$654.12		
Construct Water Bars 5 EA x \$50.00/EA = \$250.00		
Mobilization 2 EA x \$250.00/EA = \$500.00		
Excavator -Small (1.5 CY) 2 hr x \$97.09/hr = \$194.18		
	Subtotal:	\$3,398.90
Mobilization:		
Construction - 3.82% of total Costs = \$204.16		
surfacing = 0% \$0.00		
	Subtotal:	\$204.16
Quarry Development:		
	Subtotal:	\$0.00
	Total:	\$5,522.29

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Oh Henry TS Sale Date: Sept 2017
Road Number: TEMP 9-13 Road Name: SPUR 9-13
Road Decommission: 0.17 mi 12 ft Subgrade ft ditch
200 Clearing and Grubbing: 0.3 acres

200 Clearing and Grubbing: 0.3 acres	\$1,013.62
300 Excavation:	\$350.64
400 Drainage:	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	\$0.00
700-1200 Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.3 acres	\$148.20
Includes Small Quantity Factor of 1.33	
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:	\$2,710.76
Mobilization: Const. \$162.13 Surf. \$0.00.....	\$162.13
Quarry Development:	\$0.00
	Total: \$4,385.36

Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are loose cubic yards.

Road Construction Worksheet

Road Number: TEMP 9-13

Road Name: SPUR 9-13

Section 200 Clearing and Grubbing:

Clearing - Heavy (Clearing): Adjustment Factor (2.54)

1-15% (Avg Side Slopes): Adjustment Factor (0)

Scatter (Slash): Adjustment Factor (1)

less than 20' (Avg Clearing Widths): Adjustment Factor (0.25)

Total Adjustment Factor: $2.54 + 0 + 1 + 0.25 = 3.79$

Base Cost/Acre: \$891.49 x Adjustment Factor: 3.79 x Total Acres: 0.30 = \$1,013.62

Subtotal: \$1,013.62

Section 300 Excavation:

Subgrade Compaction: 4 Sta/hr \$27.12/sta. x 9.0 sta = \$244.08

Blading without ditch: \$11.84/station x 9.00 stations = \$106.56

Subtotal: \$350.64

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: \$494.02/acre x 0.30 acres = \$148.20

Includes Small Quantity Factor of 1.33

Subtotal: \$148.20

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:

RECONSTRUCTION

Mobilization 1 EA x \$250.00/EA = \$250.00

Tractor: D7 with winch 8 hr x \$163.33/hr = \$1,306.64

DECOMMISSION

Construct Water Bars 5 EA x \$50.00/EA = \$250.00

Mobilization 1 EA x \$250.00/EA = \$250.00

Tractor: D7 with rippers 4 hr x \$163.53/hr = \$654.12

Subtotal: \$2,710.76

Mobilization:

Construction - 3.04% of total Costs = \$162.13

surfacing = 0% \$0.00

Subtotal: \$162.13

Quarry Development:

Subtotal: \$0.00

Total: \$4,385.36

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

SCALE SALE

Name of Bidder
Tract Number ORM07-TS-2017.0002
Sale Name Oh Henry
Sale Notice (dated) 9/14/2017
BLM District Medford

<input type="checkbox"/> Sealed Bid for Sealed Bid Sale	<input checked="" type="checkbox"/> Written Bid for Oral Auction Sale
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In response to the above dated Sale Notice, the required deposit and bid are hereby submitted for the purchase of designated timber/vegetative resource on the tract specified above.

Required bid deposited is \$ **167,300.00** and is enclosed in the form of ☐ cash ☐ money order ☐ bank draft ☐ cashier's check ☐ certified check ☐ bid bond of corporate surety on approved list of the United States Treasury ☐ guaranteed remittance approved by the authorized officer.

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

BID SCHEDULE – SCALE SALE

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

BID SUBMITTED					ORAL BID MADE	
PRODUCT SPECIES	UNIT	ESTIMATED VOLUME OR QUANTITY	UNIT PRICE	TOTAL VALUE	UNIT PRICE	TOTAL VALUE
Douglas-fir	MBF	8,048	X \$207.30	= \$1,668,350.40	X	=
Western Hemlock	MBF	95	X \$37.10	= \$3,524.50	X	=
Sugar Pine	MBF	6	X \$31.20	= \$187.20	X	=
Incense-cedar	MBF	1	X \$163.10	= \$163.10	X	=
Total		8,150		\$1,672,225.20		
TOTAL PURCHASE PRICE						

(Continued on reverse)

If sale contract is executed, undersigned is liable for total purchase price even though the quantity cut, removed, or designated

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

Bid submitted on *(date)*

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

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

NOTICE

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

AUTHORITY: 38 FR 6280 and 43 CFR 5442.1

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

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

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

INSTRUCTIONS TO BIDDERS

1. **AUTHORITY** – Timber located on the revested Oregon and California Railroad Grant Lands and on the reconveyed Coos Bay Wagon Road Grant Lands is administered and sold pursuant to authority of the Act of August 28, 1937 (50 Stat. 874; 43 U.S.C. 1181a); timber located on other lands and other vegetative resources on all public lands of the United States under jurisdiction of the Bureau of Land Management are administered and sold pursuant to authority of the Act of July 31, 1947 (61 Stat. 681), as amended, by the Act of July 23, 1955 (69 Stat. 367; 30 U.S.C. 601 et. seq.). Regulations of the Secretary of the Interior governing sale of timber are codified in 43 CFR Group 5400.

2. **QUALIFICATIONS OF BIDDERS** – A bidder for sale of timber/vegetative resources must be either (a) a citizen of the United States, (b) a partnership composed wholly of such citizens, (c) an unincorporated association composed wholly of such citizens, or (d) a corporation authorized to transact business in the State in which the timber/vegetative resource is located.

3. **INSPECTION OF TIMBER/VEGETATIVE RESOURCES** – Bidder is invited, urged, and cautioned to inspect the timber/vegetative resource prior to submitting a bid. By executing the timber/vegetative resource sale contract, bidder warrants that the contract is accepted on the basis of his examination and inspection of the timber/vegetative resource and his opinion of its value.

4. **DISCLAIMER OF WARRANTY** – Government expressly disclaims any warranty of the fitness of the designated timber/vegetative resource for any purpose of the bidder; all timber/vegetative resources are to be sold “As Is” without any warranty of merchantability by Government. Any warranty as to the quantity or quality of timber/vegetative resource to be sold is expressly disclaimed by Government.

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

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

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

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

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

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

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

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

and removed prior to expiration of time for cutting and removal as specified in contract.*

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

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

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

10. PERFORMANCE BOND -

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

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

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

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

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

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

*Applies to Timber Only

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

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

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

red cedar lumber which does not meet lumber of American Lumber Standards Grades of Number 3 dimension or better, or Pacific Lumber Inspection Bureau R-List Grades of 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.