

TIMBER NOTICE OF SALE

SALE NAME: HUMDINGER AGREEMENT NO: 30-104375

AUCTION: December 14, 2023 starting at 10:00 a.m., COUNTY: Lewis

Pacific Cascade Region Office, Castle Rock, WA

SALE LOCATION: Sale located approximately 5 miles west of Centralia, WA

PRODUCTS SOLD

AND SALE AREA: All timber, except trees marked with blue paint, and all down timber existing 3 years

prior to the day of sale, bounded by the following;

Unit 1, white "Timber Sale Boundary" tags, reprod, D-3500 and D-3540;

Unit 2, white "Timber Sale Boundary" tags, reprod, D-3000 and D-3030;

Unit 3, white "Timber Sale Boundary" tags, reprod and D-3400 and D-3410;

Unit 4, white "Timber Sale Boundary" tags, D-3220 and reprod;

Unit 5, white "Timber Sale Boundary" tags, and the D-5000;

Unit 6, white "Timber Sale Boundary" tags, reprod, D-5000, D-5037, D-5200 and the D-

5300;

Unit 7, white "Timber Sale Boundary" tags, reprod, and the D-5200;

Unit 8, white "Timber Sale Boundary" tags, reprod, D-5300 and the D-5320;

All forest products above located on part(s) of Sections 4, 5, 6, 9, 16 and 17 all in

Township 14 North, Range 3 West, Sections 32 all in Township 15 North, Range 3 West,

W.M., containing 220 acres, more or less.

CERTIFICATION: This sale is certified under the Sustainable Forestry Initiative® program Standard (cert

no: BVC-SFIFM-018227)

ESTIMATED SALE VOLUMES AND QUALITY:

	Avg]	Ring	Total			N	IBF by	Grade				
Species	DBH C	ount	MBF	1P	2P	3P	SM	1S	2S	3S	4S	UT
Douglas fir	13.7	6	5,443						450	3,665	1,242	87
Maple	11.9		52						10	7	11	24
Red alder	11.7		37							5	22	10
Cottonwood	13		7								7	
Sale Total			5,539									

MINIMUM BID: \$1,642,000.00 BID METHOD: Sealed Bids

PERFORMANCE

SECURITY: \$100,000.00 SALE TYPE: Lump Sum

EXPIRATION DATE: October 31, 2025 **ALLOCATION:** Export Restricted

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BID DEPOSIT: \$164,200.00 or Bid Bond. Said deposit shall constitute an opening bid at the appraised

price.

HARVEST METHOD: Cable, Cable-Assist, Shovel, and Ground based equipment. Harvesting activities are

estimated to be 80 percent ground based yarding and 20 percent cable yarding. Ground based equipment is restricted to slopes of 45 percent and less. Self-Leveling ground based yarding equipment will not be permitted on sustained slopes over 60 percent. Cable Assist operations will not be permitted on slopes over 60 percent. See Clause H-140 for

further harvest requirements.

ROADS: 19.16 stations of required construction. 5.61 stations of required reconstruction. 3.54

stations of optional construction. 19.08 stations of optional reconstruction. 323.70 stations of required prehaul maintenance. Rock used in accordance with the quantities on the ROCK LIST may be obtained from any commercial source at the Purchaser's expense. Rock sources are subject to written approval by the Contract Administrator before their use. Rock source(s) must be a WSDOT certified source. All road work will not be permitted from October 1 to April 30 unless authorized in writing by the Contract

Administrator.

ACREAGE DETERMINATION

CRUISE METHOD: The sale acres were determined by GPS. The sale area was cruised using a variable plot

cruise method.

FEES: \$94,163.00 is due on day of sale. \$9.00 per MBF is due upon removal. These are in

addition to the bid price.

SPECIAL REMARKS: Gates: Teague Road, Cooks Hill Road and D-1000 gates all require a PCP 1-1 key

available at the Pacific Cascade Region office in Castle Rock.

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Timber Type Change

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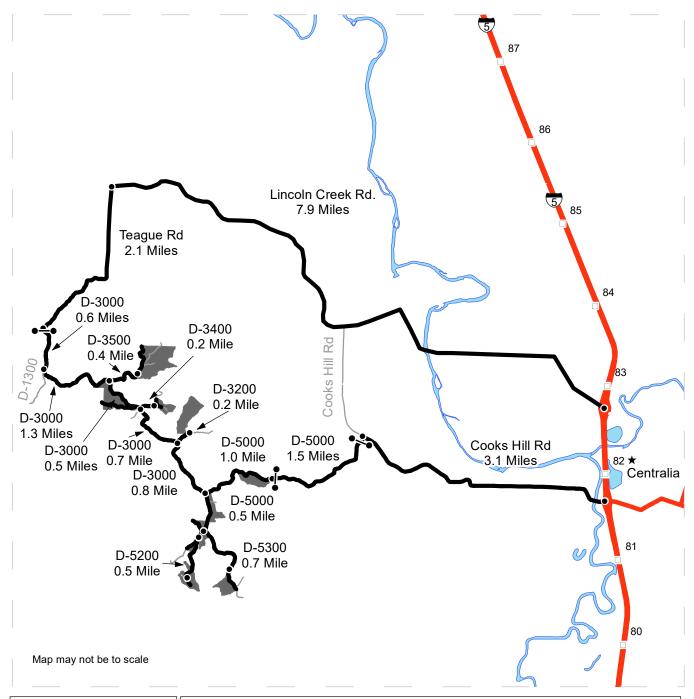
SALE NAME: HUMDINGER REGION: Pacific Cascade Region

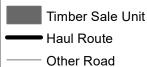
AGREEMENT#: 30-104375

TOWNSHIP(S): T14R3W, T15R3W

COUNTY(S): Lewis
ELEVATION RGE: 240-800

TRUST(S): Charitable/Educational/Penal & Reformatory Instit. (6), Common School and Indemnity (3), State Forest Transfer (1)





- Milepost Markers
- Distance Indicator
- — Gate (PCP1-1)
- **★** Town

From Exit 81 on Interstate 5, travel west on Cooks Hill Rd. for 3.1 miles. Turn left onto the D-5000 (gate) and follow for 1.5 miles to Unit 5. Continue on the D-5000 for 1.0 mile.

Units 1-4: Turn

right onto the D-3000 for 0.8 mile. Turn right onto the D-3200 and follow for 0.2 mile to Unit 4. Continue on the D-3000 for 0.7 mile then turn right onto D-3400 for 0.2 Mile to Unit 3. Continue on the D-3000 for Unit 2. Turn right onto the D-3500 for 0.4 mile. for Unit 1. For Units 6-8: turn left at the D-3000/D-5000 JCT. Unit 6 begins to the east. Continue on the D-5000 for 0.5 mile.

For Unit 8, Turn left onto the D-5300 for 0.7 mile. Turn right on the D-5200 and follow for 0.5 mile to Unit 7.

STATE OF WASHINGTON DEPARTMENT OF NATURAL RESOURCES

BILL OF SALE AND CONTRACT FOR FOREST PRODUCTS

Export Restricted Lump Sum AGREEMENT NO. 30-0104375

SALE NAME: HUMDINGER

THE STATE OF WASHINGTON DEPARTMENT OF NATURAL RESOURCES, HEREINAFTER ACTING SOLELY, IN ITS PROPRIETARY CAPACITY, STATE, AND PURCHASER, AGREE AS FOLLOWS:

Section G: General Terms

G-001 Definitions

The following definitions apply throughout this contract;

Bill of Sale and Contract for Forest Products: Contract between the Purchaser and the State, which sets forth the procedures and obligations of the Purchaser in exchange for the right to remove forest products from the sale area. The Bill of Sale and Contract for Forest Products may include a Road Plan for any road construction or reconstruction, where applicable.

Contract Administrator: Region Manager's designee responsible for assuring that the contractual obligations of the Purchaser are met.

Forest Product: Any material derived from the forest for commercial use.

Purchaser: The company or individual that has entered into a Bill of Sale and Contract for Forest Products with the State for the right to harvest and remove forest products from the timber sale area.

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Road Construction: Includes building new and maintaining existing forest roads and associated work that may be optional or required as described in the Road Plan.

State: The Washington State Department of Natural Resources, landowner and seller of Forest Products from the timber sale area. The State is represented by the Region Manager as designated on the contract signature page. Contractual obligations to the State are enforced by the Region Manager or the designated Contract Administrator.

Subcontractor: Individual or company employed by the Purchaser to perform a portion or all of the services required by The Bill of Sale and Contract for Forest Products. The Purchaser is responsible for independently negotiating, procuring and paying for all subcontracted services rendered.

G-011 Right to Remove Forest Products and Contract Area

Purchaser was the successful bidder on December 14, 2023 and the sale was confirmed on _______. The State, as owner, agrees to sell to Purchaser, and Purchaser agrees to purchase as much of the following forest products as can be cut and removed during the term of this contract: All timber, except trees marked with blue paint, and all down timber existing 3 years prior to the day of sale, bounded by the following;

Unit 1, white "Timber Sale Boundary" tags, reprod, D-3500 and D-3540;

Unit 2, white "Timber Sale Boundary" tags, reprod, D-3000 and D-3030;

Unit 3, white "Timber Sale Boundary" tags, reprod and D-3400 and D-3410;

Unit 4, white "Timber Sale Boundary" tags, D-3220 and reprod;

Unit 5, white "Timber Sale Boundary" tags, and the D-5000;

Unit 6, white "Timber Sale Boundary" tags, reprod, D-5000, D-5037, D-5200 and the D-5300;

Unit 7, white "Timber Sale Boundary" tags, reprod, and the D-5200;

Unit 8, white "Timber Sale Boundary" tags, reprod, D-5300 and the D-5320;

All forest products above located on approximately 220 acres on part(s) of Sections 4, 5, 6, 9, 16, and 17 all in Township 14 North, Range 3 West, Section 32 in Township 15 North, Range 3 West W.M. in Lewis County(s) as designated on the sale area and as shown on the attached timber sale map.

All forest products described above from the bole of the tree that meet or exceed 2 inches diameter inside bark on the small end are eligible for removal. Above ground components of a tree that remain as by-products after the manufacture of logs,

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including but not limited to tree tops, branches, limbs, needles, leaves, stumps, are not eligible for removal under the terms of this contract.

Forest products purchased under a contract that is designated as export restricted shall not be exported until processed. Forest products purchased under a contract that is designated as exportable may be exported prior to processing.

G-020 Inspection By Purchaser

Purchaser hereby warrants to the State that they have had an opportunity to fully inspect the sale area and the forest products being sold. Purchaser further warrants to the State that they enter this contract based solely upon their own judgment of the value of the forest products, formed after their own examination and inspection of both the timber sale area and the forest products being sold. Purchaser also warrants to the State that they enter this contract without any reliance upon the volume estimates, acreage estimates, appraisals, pre-bid documentation, or any other representations by the State Department of Natural Resources.

G-031 Contract Term

Purchaser shall complete all work required by this contract prior to October 31, 2025.

G-040 Contract Term Adjustment - No Payment

Purchaser may request an adjustment in the contract term. A claim must be submitted in writing and received by the State within 30 days after the start of interruption or delay. The claim must also indicate the actual or anticipated length of interruption or delay. The State may grant an adjustment without charge only if the cause for contract term adjustment is beyond Purchaser's control. The cause must be one of the following and the adjustment may be granted only if operations or planned operations under this contract are actually interrupted or delayed:

- a. Road and bridge failures which deny access.
- b. Access road closures imposed by road owner.
- c. Excessive suspensions as provided in clause G-220.
- d. Regulatory actions not arising from Purchaser's failure to comply with this contract which will prevent timber harvest for a period less than 6 months.

G-051 Contract Term Extension - Payment

Extensions of this contract term may be granted only if, in the judgment of the State, Purchaser is acting in good faith and is endeavoring to remove the forest products conveyed. The term of this contract may be extended for a reasonable time by the State if all of the following conditions are satisfied:

a. A written request for extension of the contract term must be received prior to the expiration date of the contract.

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- b. Completion of all required roads and compliance with all contract and regulatory requirements.
- c. For the first extension, not to exceed 1 year, payment of at least 25 percent of the total contract price.

For the second extension, not to exceed 1 year, payment of at least 90 percent of the total contract price.

The payments shall not include the initial deposit which shall be held according to the provisions of RCW 79.15.100.

- d. Payment of an amount based on 12 percent interest per annum on the unpaid portion of the total contract price.
 - All payments, except the initial deposit, will be deducted from the total contract price to determine the unpaid portion of the contract.
- e. Payment of \$1,137.00 per acre per annum for the acres on which an operating release has not been issued.
- f. In no event will the extension charge be less than \$200.00.
- g. Extension payments are non-refundable.
- G-053 Surveys Sensitive, Threatened, Endangered Species

Whenever the State determines that a survey for sensitive, threatened, or endangered species is prudent, or when Purchaser determines a survey is prudent and the State agrees, Purchaser shall perform such surveys at Purchaser's expense and to the standards required by the State. The survey information shall be supplied to the State.

G-060 Exclusion of Warranties

The PARTIES AGREE that the IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE and ALL OTHER WARRANTIES EXPRESSED OR IMPLIED ARE EXCLUDED from this transaction and shall not apply to the goods sold. For example, THE FOLLOWING SPECIFIC MATTERS ARE NOT WARRANTED, and are EXCLUDED from this transaction:

- a. The MERCHANTABILITY of the forest products. The use of the term "merchantable" in any document is not intended to vary the foregoing.
- b. The CONDITION of the forest products. The forest products will be conveyed "AS IS."
- c. The ACREAGE contained within any sale area. Any acreage descriptions appearing in the timber notice of sale, timber sale contract, or other documents

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are estimates only, provided solely for administrative and identification purposes.

- d. The VOLUME, QUALITY, OR GRADE of the forest products. The State neither warrants nor limits the amount of timber to be harvested. The descriptions of the forest products to be conveyed are estimates only, made solely for administrative and identification purposes.
- e. The CORRECTNESS OF ANY SOIL OR SURFACE CONDITIONS, PRE-SALE CONSTRUCTION APPRAISALS, INVESTIGATIONS, AND ALL OTHER PRE-BID DOCUMENTS PREPARED BY OR FOR THE STATE. These documents have been prepared for the State's appraisal purposes only.
- f. THAT THE SALE AREA IS FREE FROM THREATENED OR ENDANGERED SPECIES or their habitat. The State is not responsible for any interference with forestry operations that result from the presence of any threatened or endangered species, or the presence of their habitat, within the sale area.
- g. THAT THE FORESTRY OPERATIONS to be performed under this contract WILL BE FREE FROM REGULATORY ACTIONS by governmental agencies. The State is not responsible for actions to enforce regulatory laws, such as the Washington Forest Practices Act (chapter 76.09 RCW), taken by the Department of Natural Resources or any other agency that may affect the operability of this timber sale.
- h. Items contained in any other documents prepared for or by the State.

G-061 Inadvertent Discovery of Cultural Resources

Purchaser acknowledges that cultural resources as defined in WAC 222-16-010 may exist within the timber sale area and that the existence and location of such resources may be unknown at the time this contract is executed. Purchaser has a duty to exercise due care in its operations and in the event any human skeletal remains are discovered by the Purchaser or the State during the course of operations Purchaser shall immediately halt operations and notify local law enforcement in the most expeditious manner possible then notifying the Contract Administrator. In the event cultural resources are discovered by the Purchaser or the State during the course of operations Purchaser shall immediately halt operations and notify the Contract Administrator. Any potential resources shall not be removed or disturbed. Purchaser shall resume operations as directed in writing by the Contract Administrator.

G-062 Habitat Conservation Plan

The State has entered into a Habitat Conservation Plan (HCP) with the U.S. Fish and Wildlife Service and the National Marine Fisheries Service (the Services) to address state trust land management issues relating to compliance with the Federal Endangered Species Act. The activities to be carried out under this contract are located within the State's HCP area and are subject to the terms and conditions of the HCP, and the

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Services' Incidental Take Permit Nos. TE812521-1 and 1168 (collectively referred to as ITP), or as amended hereafter by the Services. The ITP authorizes the incidental take of certain federally listed threatened and endangered species, as specified in the ITP conditions. All HCP materials, including the ITP, are available for review at the State's Regional Offices and the administrative headquarters in Olympia, Washington.

By signing this contract, Purchaser agrees to comply with the terms and conditions of the ITP, and the HCP, which shall become terms of this contract. The State agrees to authorize the lawful activities of the Purchaser carried out pursuant to this contract, PROVIDED the Purchaser remains in compliance with the terms and conditions of both the HCP and ITP. The requirements set forth in this contract are intended to comply with the terms and conditions of the HCP and ITP. Accordingly, non-compliance with the terms and conditions of the HCP and ITP will render the authorization provided in this paragraph void, be deemed a breach of the contract and may subject Purchaser to liability for violation of the Endangered Species Act.

Any modifications to the contract shall be proposed in writing by Purchaser, shall continue to meet the terms and conditions of the HCP and ITP, and shall require the prior written approval of the Region Manager before taking effect.

G-063 Incidental Take Permit Notification Requirements

- a. Purchaser shall immediately notify the Contract Administrator of new locations of permit species covered by the Incidental Take Permits (ITP) that are discovered within the area covered by the State's Habitat Conservation Plan (HCP), including, but not limited to: locations of occupied murrelet habitat; spotted owl nest sites; wolves; grizzly bears; nests, communal roosts, or feeding concentrations of bald eagles; peregrine falcon nests; Columbian white-tailed deer; Aleutian Canada geese; Oregon silverspot butterflies; and additional stream reaches found to contain bull trout. Purchaser is required to notify the Contract Administrator upon discovery of any fish species found in streams or bodies of water classified as non-fish bearing. In all circumstances, notification must occur within a 24 hour time period.
- b. Upon locating any live, dead, injured, or sick specimens of any permit species covered by the ITP, Purchaser shall immediately notify the Contract Administrator. Purchaser shall notify the Contract Administrator if there is any doubt as to the identification of a discovered permit species. Purchaser may be required to take certain actions to help the Contract Administrator safeguard the well-being of any live, injured or sick specimens of any permit species discovered, until the proper disposition of such specimens can be determined by the Contract Administrator. Any such requirements will be explained to Purchaser by the Contract Administrator during the Pre-Work Conference. In all circumstances, notification must occur within a 24 hour time period.

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- c. Purchaser shall refer to a specific ITP number, ITP TE812521-1 or ITP 1168 (copies which are located in the region office) in all correspondence and reports concerning permit activities.
- d. Provisions and requirements of the ITP shall be clearly presented and explained to Purchaser by Contract Administrator during the Pre-Work Conference as per contract clause G-330. All applicable provisions of the ITP and this schedule must be presented and clearly explained by Purchaser to all authorized officers, employees, contractors, or agents of Purchaser conducting authorized activities in the timber sale area. Any questions Purchaser may have about the ITP should be directed to the Contract Administrator.

G-064 Permits

Purchaser is responsible for obtaining any permits not already obtained by the State that relate to Purchaser's operation. Forest Practice Application / Hydraulic Project Approval permits obtained by the State shall be transferred to Purchaser. Purchaser is responsible for all permits, amendments and renewals.

G-065 Regulatory Disclaimer

The State disclaims any responsibility for, or liability relating to, regulatory actions by any government agency, including actions pursuant to the Forest Practices Act, Ch. 76.09 RCW that may affect the operability of the timber sale.

G-066 Governmental Regulatory Actions

a. Risk

Purchaser shall be responsible for any increased operational costs arising from any applicable foreign or domestic governmental regulation or order that does not cause contract performance to become commercially impracticable or that does not substantially frustrate the purpose of the contract. If impracticability or frustration results from Purchaser's failure to comply with this contract, Purchaser shall remain responsible for payment of the total contract price notwithstanding the impracticability or frustration.

b. Sale Area

When portions of the sale area become subject to a foreign or domestic governmental regulation or order that will likely prevent timber harvest for a period that will exceed the expiration date of this contract, and Purchaser has complied with this contract, the following shall apply:

i. RCW 79.15.140 shall govern all adjustments to the contract area.

c. Adjustment of Price

The State shall adjust the total contract price by subtracting from the total contract price an amount determined in the following manner: The State shall

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cause the timber sale area subject to governmental regulation or order to be measured. The State shall calculate the percentage of the total sale area subject to the governmental regulation or order. The State shall reduce the total contract price by that calculated percentage. However, variations in species, value, costs, or other items pertaining to the affected sale area will be analyzed and included in the adjustment if deemed appropriate by the State. The State will further reduce the total contract price by the reasonable cost of unamortized roads Purchaser constructed but was unable to fully use for removing timber. A reduction in total contract price terminates all of the Purchaser's rights to purchase and remove the timber and all other interest in the affected sale area.

G-070 Limitation on Damage

In the event of a breach of any provision of this contract by the State, the exclusive remedy available to Purchaser will be limited to a return of the initial deposit, unapplied payments, and credit for unamortized improvements made by Purchaser. The State shall not be liable for any damages, whether direct, incidental or consequential.

G-080 Scope of State Advice

No advice by any agent, employee, or representative of the State regarding the method or manner of performing shall constitute a representation or warranty that said method, manner or result thereof will conform to the contract or be suitable for Purchaser's purposes under the contract. Purchaser's reliance on any State advice regarding the method or manner of performance shall not relieve Purchaser of any risk or obligation under the contract. Purchaser retains the final responsibility for its operations under this contract and State shall not be liable for any injuries resulting from Purchaser's reliance on any State advice regarding the method or manner of performance.

G-091 Sale Area Adjustment

The Parties may agree to adjustments in the sale area boundary. The cumulative changes to the sale area during the term of the contract shall not exceed more than four percent of the original sale area. If the sale area is increased, the added forest products become a part of this contract. The State shall determine the volume added and shall calculate the increase to the total contract price using the rates set forth in clause G-101, G-102, or G-103. If the sale area is reduced, the State shall determine the volume to be reduced. The State shall calculate the reduction to the total contract price using the rates set forth in clause G-101, G-102, or G-103.

G-101 Forest Products Not Designated

Any forest products not designated for removal, which must be removed in the course of operations authorized by the State, shall be approved and designated by the Contract Administrator. Added forest products become a part of this contract and the Scribner log scale volume, as defined by the Northwest Log Rules Advisory Group, shall be determined by the Contract Administrator. Added forest products shall be paid for at the following contract payment rates per Mbf Scribner log scale.

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The pricing schedule has not been set for the sale.

G-106 Adding Naturally Damaged Forest Products

Any forest products not designated for removal that are seriously damaged by disease, insects or wind, or that may contribute seriously to the spread of insect or disease damage may be added to this sale by the State's Contract Administrator. Additions must be in unlogged areas of the sale and added volume shall not exceed an amount equal to 10 percent of the original advertised volume. Added forest products become a part of this contract and shall be paid for at the rate set forth in clause G-101, G-102 or G-103.

G-111 Title and Risk of Loss

Title to the forest products under this contract passes to the Purchaser after they are removed from the sale area, if adequate advance payment or payment security has been provided to the State under this contract. Purchaser bears all risk of loss of, or damage to, and has an insurable interest in, the forest products described in this contract from the time the sale is confirmed under RCW 79.15.120. Breach of this contract shall have no effect on this provision.

G-116 Sustainable Forestry Initiative® (SFI®) Certification

Forest products purchased under this contract are certified as being in conformance with the Sustainable Forestry Initiative 2022 Forest Management Standard under certificate number: BVC-SFIFM-018227.

Purchaser shall have at least one person regularly on-site during active operations that have completed training according to the requirements outlined within the SFI Standard. Purchaser shall designate in writing the name(s) of the individual(s) who will be on-site and provide proof of their successful completion of an approved training program prior to active operations.

G-120 Responsibility for Work

All work, equipment, and materials necessary to perform this contract shall be the responsibility of Purchaser. Any damage to improvements, except as provided in clause G-121 or unless the State issues an operating release pursuant to clause G-280, shall be repaired promptly to the satisfaction of the State and at Purchaser's expense.

G-121 Exceptions

Exceptions to Purchaser's responsibility in clause G-120 shall be limited exclusively to the following. These exceptions shall not apply where road damage occurs due to Purchaser's failure to take reasonable precautions or to exercise sound forest engineering and construction practices.

The State will bear the cost to repair damages caused by a third party. In all other cases, the Purchaser shall bear responsibility for the costs as described below.

Road is defined as the road bed, including but not limited to its component parts, such as cut and fill slopes, subgrade, ditches, culverts, bridges, and cattle guards.

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For the purposes of this clause, damage will be identified by the State and is defined as:

- 1. Failure of (a) required improvements or roads designated in clause C-050, or (b) required or optional construction completed to the point that authorization to haul has been issued:
- 2. Caused by a single event from forces beyond the control of Purchaser, its employees, agents, or invitees, including independent contractors; and
- 3. Includes, but is not limited to natural disasters such as earthquakes, volcanic eruptions, landslides, and floods.

The repair work identified by the State shall be promptly completed by Purchaser at an agreed price. The State may elect to accomplish repairs by means of State-provided resources.

For each event, Purchaser shall be solely responsible for the initial \$5,000 in repairs. For repairs in excess of \$5,000, the parties shall share equally the portion of costs between \$5,000 and \$15,000. The State shall be solely responsible for the portion of the cost of repairs that exceed \$15,000.

Nothing contained in clauses G-120 and G-121 shall be construed as relieving Purchaser of responsibility for, or damage resulting from, Purchaser's operations or negligence, nor shall Purchaser be relieved from full responsibility for making good any defective work or materials. Authorization to haul does not warrant that Purchaser built roads are free from material defect and the State may require additional work, at Purchasers expense regardless of cost, to remedy deficiencies at any time.

G-140 Indemnity

To the fullest extent permitted by law, Purchaser shall indemnify, defend and hold harmless State, agencies of State and all officials, agents and employees of State, from and against all claims arising out of or resulting from the performance of the contract. "Claim" as used in this contract means any financial loss, claim, suit, action, damage, or expense, including but not limited to attorneys' fees, attributable for bodily injury, sickness, disease or death, or injury to or destruction of tangible property including loss of use resulting therefrom. Purchasers' obligations to indemnify, defend, and hold harmless includes any claim by Purchasers' agents, employees, representatives, or any subcontractor or its employees. Purchaser expressly agrees to indemnify, defend, and hold harmless State for any claim arising out of or incident to Purchasers' or any subcontractors' performance or failure to perform the contract. Purchasers' obligation to indemnify, defend, and hold harmless State shall not be eliminated or reduced by any actual or alleged concurrent negligence of State or its agents, agencies, employees and officials. Purchaser waives its immunity under Title 51 RCW to the extent it is required to indemnify, defend and hold harmless State and its agencies, officials, agents or employees.

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G-150 Insurance

Purchaser shall, at its cost and expense, buy and maintain insurance of the types and amounts listed below. Failure to buy and maintain the required insurance may result in a breach and/or termination of the contract at State's option. State may suspend Purchaser operations until required insurance has been secured.

All insurance and surety bonds should be issued by companies admitted to do business within the State of Washington and have a rating of A-, Class VII or better in the most recently published edition of Best's Reports. If an insurer is not admitted, all insurance policies and procedures for issuing the insurance policies must comply with Chapter 48.15 RCW and 284-15 WAC.

The State of Washington, Department of Natural Resources region office of sale origin shall be provided written notice before cancellation or non-renewal of any insurance referred to therein, in accord with the following specifications:

- 1. Insurers subject to Chapter 48.18 RCW (admitted and regulated by the Insurance Commissioner): The insurer shall give the State 45 days advance notice of cancellation or non-renewal. If cancellation is due to non-payment of premium, the State shall be given 10 days advance notice of cancellation.
- 2. Insurers subject to Chapter 48.15 RCW (surplus lines): The State shall be given 20 days advance notice of cancellation. If cancellation is due to non-payment of premium, the State shall be given 10 days advance notice of cancellation.

Before starting work, Purchaser shall furnish State of Washington, Department of Natural Resources with a certificate(s) of insurance, executed by a duly authorized representative of each insurer, showing compliance with the insurance requirements specified in the contract. Insurance coverage shall be obtained by the Purchaser prior to operations commencing and continually maintained in full force until all contract obligations have been satisfied or an operating release has been signed by the State.

Purchaser shall include all subcontractors as insured under all required insurance policies, or shall furnish separate certificates of insurance and endorsements for each subcontractor. Subcontractor(s) must comply fully with all insurance requirements stated herein. Failure of subcontractor(s) to comply with insurance requirements does not limit Purchaser's liability or responsibility.

The State of Washington, Department of Natural Resources, its elected and appointed officials, agents and employees shall be named as an additional insured via endorsement on all general liability, excess, umbrella, and property insurance policies.

All insurance provided in compliance with this contract shall be primary as to any other insurance or self-insurance programs afforded to or maintained by State. Purchaser

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waives all rights against State for recovery of damages to the extent these damages are covered by general liability or umbrella insurance maintained pursuant to this contract.

By requiring insurance herein, State does not represent that coverage and limits will be adequate to protect Purchaser and such coverage and limits shall not limit Purchaser's liability under the indemnities and reimbursements granted to State in this contract.

The limits of insurance, which may be increased as deemed necessary by State of Washington, Department of Natural Resources, shall not be less than as follows:

Commercial General Liability (CGL) Insurance. Purchaser shall maintain general liability (CGL) insurance, and, if necessary, commercial umbrella insurance with a limit of not less than \$1,000,000.00 per each occurrence. If such CGL insurance contains aggregate limits, the General Aggregate limit shall be at least twice the "each occurrence" limit. CGL insurance shall have products-completed operations aggregate limit of at least two times the "each occurrence" limit. CGL coverage shall include a Logging and Lumbering Endorsement (i.e. Logger's Broad-Form) to cover the events that include, but are not limited to, fire suppression expenses, accidental timber trespasses, and wildfire property damage with limits of not less than \$2,000,000.00 each occurrence.

CGL insurance shall be written on Insurance Services Office (ISO) occurrence form CG 00 01 (or a substitute form providing equivalent coverage). All insurance shall cover liability arising out of premises, operations, independent contractors, products completed operations, personal injury and advertising injury, and liability assumed under an insured contract (including the tort liability of another party assumed in a business contract), and contain separation of insured (cross liability) condition.

Employer's Liability "Stop Gap" Insurance. Purchaser shall buy employers liability insurance, and, if necessary, commercial umbrella liability insurance with limits not less than \$1,000,000.00 each accident for bodily injury by accident or \$1,000,000.00 each employee for bodily injury by disease.

Workers' Compensation Coverage. Purchaser shall comply with all State of Washington workers' compensation statutes and regulations. Workers' compensation coverage shall be provided for all employees of Purchaser and employees of any subcontractor or sub-subcontractor. Coverage shall include bodily injury (including death) by accident or disease, which exists out of or in connection with the performance of this contract. Except as prohibited by law, Purchaser waives all rights of subrogation against State for recovery of damages to the extent they are covered by workers' compensation, employer's liability, commercial general liability, or commercial umbrella liability insurance.

If Purchaser, subcontractor or sub-subcontractor fails to comply with all State of Washington workers' compensation statutes and regulations and State incurs fines or is required by law to provide benefits to or obtain coverage for such employees, Purchaser

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shall indemnify State. Indemnity shall include all fines, payment of benefits to Purchaser or subcontractor employees, or their heirs or legal representatives, and the cost of effecting coverage on behalf of such employees.

Business Auto Policy (BAP). Purchaser shall maintain business auto liability and, if necessary, commercial umbrella liability insurance with a limit not less than \$1,000,000.00 per accident. Such insurance shall cover liability arising out of "Any Auto". Business auto coverage shall be written on ISO form CA 00 01, or substitute liability form providing equivalent coverage. If necessary the policy shall be endorsed to provide contractual liability coverage and cover a "covered pollution cost or expense" as provided in the 1990 or later editions of CA 00 01. Purchaser waives all rights against State for the recovery of damages to the extent they are covered by business auto liability or commercial umbrella liability insurance.

G-160 Agents

The State's rights and duties will be exercised by the Region Manager at Castle Rock, Washington. The Region Manager will notify Purchaser in writing who is responsible for administering the contract. The Region Manager has sole authority to waive, modify, or amend the terms of this contract in the manner prescribed in clause G-180. No agent, employee, or representative of the State has any authority to bind the State to any affirmation, representation, or warranty concerning the forest products conveyed beyond the terms of this contract.

Purchaser is required to have a person on site during all operations who is authorized to receive instructions and notices from the State. Purchaser shall inform the State in writing who is authorized to receive instructions and notices from the State, and any limits to this person's authority.

G-170 Assignment and Delegation

No rights or interest in this contract shall be assigned by Purchaser without prior written permission of the State. Any attempted assignment shall be void and ineffective for all purposes unless made in conformity with this paragraph. Purchaser may perform any duty through a delegate, but Purchaser is not thereby relieved of any duty to perform or any liability. Any assignee or delegate shall be bound by the terms of the contract in the same manner as Purchaser.

G-180 Modifications

Waivers, modifications, or amendments of the terms of this contract must be in writing signed by Purchaser and the State.

G-190 Contract Complete

This contract is the final expression of the Parties' agreement. There are no understandings, agreements, or representations, expressed or implied, which are not specified in this contract.

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G-200 Notice

Notices required to be given under the following clauses shall be in writing and shall be delivered to Purchaser's authorized agent or sent by certified mail to Purchaser's address of record:

G-210 Violation of Contract G-220 State Suspends Operations

All other notices required to be given under this contract shall be in writing and delivered to the authorized agent or mailed to the Party's post office address. Purchaser agrees to notify the State of any change of address.

G-210 Violation of Contract

- a. If Purchaser violates any provision of this contract, the Contract Administrator, by written notice, may suspend those operations in violation. If the violation is capable of being remedied, Purchaser has 30 days after receipt of a suspension notice to remedy the violation. If the violation cannot be remedied (such as a violation of WAC 240-15-015) or Purchaser fails to remedy the violation within 30 days after receipt of a suspension notice, the State may terminate the rights of Purchaser under this contract and collect damages.
- b. If the contract expires pursuant to clause G-030 or G-031 without Purchaser having performed all its duties under this contract, Purchaser's right to operate is terminated and Purchaser shall not have the right to remedy the breach. This provision shall not relieve Purchaser of any payment obligations.
- c. The State has the right to remedy the breach in the absence of any indicated attempt by Purchaser or if Purchaser is unable, as determined by the State, to remedy the breach. Any expense incurred by the State shall be charged to Purchaser and shall be paid within 30 days of receipt of billing.
- d. If Purchaser's violation is a result of a failure to make a payment when due, in addition to a. and b. above, interest shall accrue on the unpaid balance at 12 percent per annum, beginning the date payment was due.

G-220 State Suspends Operations

The Contract Administrator may suspend any operation of Purchaser under this contract when the State is suffering, or there is a reasonable expectation the State will suffer environmental, monetary, or other damage if the operation is allowed to continue.

Purchaser shall be in breach of this contract if the operation continues after the suspension notice or if the operation resumes without prior approval and notice from the Contract Administrator.

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Purchaser may request a modification of a suspension within 30 days of the start of suspension through the dispute resolution process in clause G-240. If this process results in a finding that the suspension exceeded the time reasonably necessary to stop or prevent damage to the State, Purchaser is entitled to request a contract term adjustment under clause G-040.

If it reasonably appears that the damage that the State is suffering, or can reasonably be expected to suffer if the operation is allowed to continue, will prevent harvest for a period that will exceed 6 months, and Purchaser has complied with this contract, the provisions of clause G-066 shall govern just as if the harvest was prevented by an applicable foreign or domestic governmental regulation or order.

G-230 Unauthorized Activity

Any cutting, removal, or damage of forest products by Purchaser, its employees, agents, or invitees, including independent contractors, in a manner inconsistent with the terms of this contract or State law, is unauthorized. Such activity may subject Purchaser to liability for triple the value of said forest products under RCW 79.02.320 or RCW 79.02.300 and may result in prosecution under RCW 79.02.330 or other applicable statutes.

G-240 Dispute Resolution

The following procedures apply in the event of a dispute regarding interpretation or administration of this contract and the parties agree that these procedures must be followed before a lawsuit can be initiated.

- a. In the event of a dispute, Purchaser must make a written request to the Region Manager for resolution prior to seeking other relief.
- b. The Region Manager will issue a written decision on Purchaser's request within ten business days.
- c. Within ten business days of receipt of the Region Manager's decision,
 Purchaser may make a written request for resolution to the Deputy Supervisor
 Uplands of the Department of Natural Resources.
- d. Unless otherwise agreed, a conference will be held by the Deputy Supervisor Uplands within 30 calendar days of the receipt of Purchaser's request for review of the Region Manager's written decision. Purchaser and the Region Manager will have an opportunity to present their positions. The Deputy Supervisor Uplands will issue a decision within a reasonable time of being presented with both Parties' positions.

G-250 Compliance with All Laws

Purchaser shall comply with all applicable statutes, regulations and laws, including, but not limited to; chapter 27.53 RCW, chapter 68.50 RCW, WAC 240-15 and WAC 296-54. Failure to comply may result in forfeiture of this contract.

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G-260 Venue

This contract shall be governed by the laws of the State of Washington. In the event of a lawsuit involving this contract, venue shall be proper only in Thurston County Superior Court.

G-270 Equipment Left on State Land

All equipment owned or in the possession of Purchaser, its employees, agents, or invitees, including independent contractors, shall be removed from the sale area and other State land by the termination date of this contract. Equipment remaining unclaimed on State land 60 days after the expiration of the contract period is subject to disposition as provided by law. Purchaser shall pay to the State all costs of moving, storing, and disposing of such equipment. The State shall not be responsible for any damages to or loss of the equipment or damage caused by the moving, storing or disposal of the equipment.

G-280 Operating Release

An operating release is a written document, signed by the State and Purchaser, indicating that Purchaser has been relieved of certain rights or responsibilities with regard to the entire or a portion of the timber sales contract. Purchaser and State may agree to an operating release for this sale, or portion of this sale, prior to the contract expiration, when all contract requirements pertaining to the release area have been satisfactorily completed. Upon issuance of a release, Purchaser's right to cut and remove forest products on the released area will terminate.

G-310 Road Use Authorization

Purchaser is authorized to use the following State roads and roads for which the State has acquired easements and road use permits; D-3000, D-3030, D-3200, D-3220, D-3221, D-3222, D-3400, D-3410, D-3420, D-3500, D-3530, D-3540, D-3544, D-5000, D-5037, D-5040, D-5055, D-5100, D-5140, D-5200, D-5300, D-5320, D-6000 and D-6500.. The State may authorize in writing the use of other roads subject to fees, restrictions, and prior rights.

G-330 Pre-work Conference

Purchaser shall arrange with the Contract Administrator to review this contract and to examine the sale area before beginning any operations. A plan of operations shall be developed and agreed upon by the Contract Administrator and Purchaser before beginning any operations. To the extent that the plan of operations is inconsistent with the contract, the terms of the contract shall prevail. State's acceptance and approval of Purchaser's plan of operations shall not be construed as any statement or warranty that the plan of operations is adequate for Purchaser's purposes or complies with applicable laws.

G-340 Preservation of Markers

Any legal land subdivision survey corners and witness objects are to be preserved. If such are destroyed or disturbed, the Purchaser shall, at the Purchaser's own expense, reestablish them through a licensed land surveyor in accordance with U.S. General Land Office standards. Corners and/or witness objects that must be disturbed or destroyed in

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the process of road construction or logging shall be adequately referenced and/or replaced in accordance with RCW 58.24.040(8). Such references must be approved by the Contract Administrator prior to removal of said corners and/or witness objects.

G-360 Road Use Reservation

The State shall have the right to use, without charge, all existing roads and any road constructed or reconstructed on State lands by Purchaser under this contract. The State may extend such rights to others. If the State grants such rights to others, the State shall require performance or payment, as directed by the State, for their proportionate share of maintenance based on their use.

G-370 Blocking Roads

Purchaser shall not block the D-5000 and D-3000 roads, unless authority is granted in writing by the Contract Administrator.

G-380 Road Easement and Road Use Permit Requirements

Purchaser agrees to comply with the terms and conditions of the attached:

Easement # 55-002171 between State and Boise Cascade dated November 23, 1975.

G-430 Open Fires

Purchaser shall not set, or allow to be set by Purchaser's employees, agents, invitees and independent contractors, any open fire at any time of the year without first obtaining permission, in writing, from the Contract Administrator.

G-450 Encumbrances

This contract and Purchaser's activities are subject to the following:

DATA MISSING

Section P: Payments and Securities

P-011 Initial Deposit

Purchaser paid DATA MISSING initial deposit, which will be maintained pursuant to RCW 79.15.100(3). If the operating authority on this contract expires without Purchaser's payment of the full amount specified in Clause P-020, the initial deposit will be immediately forfeited to the State, and will be offset against Purchaser's remaining balance due. Any excess initial deposit funds not needed to ensure full payment of the contract price, or not needed to complete any remaining obligations of the Purchaser existing after contract expiration, will be refunded to the Purchaser.

P-020 Payment for Forest Products

Purchaser agrees to pay the total, lump sum contract price of \$144,014.00. The total contract price consists of a \$0.00 contract bid price plus \$144,014.00 in fees. Fees collected shall be retained by the state unless the contract is adjusted via the G-066 clause. Purchaser shall be liable for the entire purchase price, and will not be entitled to any refunds or offsets unless expressly stated in this contract.

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THE PURCHASE PRICE SHALL NOT BE AFFECTED BY ANY FACTORS, INCLUDING: the amount of forest products actually present within the contract area, the actual acreage covered by the contract area, the amount or volume of forest products actually cut or removed by purchaser, whether it becomes physically impossible or uneconomic to remove the forest products, and whether the subject forest products have been lost or damaged by fire or any other cause. The only situations Purchaser may not be liable for the full purchase price are governed by clause G-066, concerning governmental regulatory actions taken during the term of the contract.

P-045 Guarantee of Payment

Purchaser will pay for forest products prior to cutting or will guarantee payment by posting an approved payment security. The amount of cash or payment security shall be determined by the State and shall equal or exceed the value of the cutting proposed by Purchaser.

P-050 Billing Procedure

The State will compute and forward to Purchaser statements of charges provided for in the contract. Purchaser shall deliver payment to the State on or before the date shown on the billing statement.

P-080 Payment Account Refund

Advance payments made under P-045 or P-045.2 remaining on account above the value for the charges shall be returned to Purchaser within 30 days following the final report of charges. Refunds not made within the 30 day period will accrue interest at the interest rate, as established by WAC 332-100-030, computed on a daily basis until paid.

P-090 Performance Security

Purchaser agrees to furnish, within 30 days of the confirmation date, security acceptable to the State in the amount of \$100,000.00. The Security provided shall guarantee performance of all provisions of this contract and payment of any damages caused by operations under this contract or resulting from Purchaser's noncompliance with any rule or law. Acceptable performance security may be in the form of a performance bond, irrevocable letter of credit, cash, savings or certificate of deposit account assignments, and must name the State as the obligee or beneficiary. A letter of credit must comply with Title 62A RCW, Article 5. Performance security must remain in full force over the duration of the contract length. Surety bonds issued shall conform to the issuance and rating requirements in clause G-150. The State shall retain the performance security pursuant to RCW 79.15.100. Purchaser shall not operate unless the performance security has been accepted by the State. If at any time the State decides that the security document or amount has become unsatisfactory, Purchaser agrees to suspend operations and, within 30 days of notification, to replace the security with one acceptable to the State or to supplement the amount of the existing security.

P-100 Performance Security Reduction

The State may reduce the performance security after an operating release has been issued if the State determines that adequate security exists for any remaining obligations of Purchaser.

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Section H: Harvesting Operations

H-013 Reserve Tree Damage Definition

Reserve trees are trees required and designated for retention within the sale boundary. Purchaser shall protect reserve trees from being cut, damaged, or removed during operations.

Reserve tree damage exists when one or more of the following criteria occur as a result of Purchaser's operation, as determined by the Contract Administrator:

- a. A reserve tree has one or more scars on its trunk exposing the cambium layer, which in total exceeds 100 square inches.
- b. A reserve tree top is broken or the live crown ratio is reduced below 30 percent.
- c. A reserve tree has more than 1/3 of the circumference of its root system injured such that the cambium layer is exposed.

If the Contract Administrator determines that a reserve tree has been cut or damaged, the Purchaser shall provide a replacement reserve tree of like condition, size, and species within the sale unit containing the damaged leave tree, as approved by the Contract Administrator. Purchaser may be required to pay liquidated damages for Excessive Reserve Tree Damage as detailed in clause D-041.

Removal of designated reserve trees from the sale area is unauthorized, and may invoke the use of the G-230 'Unauthorized Activity' clause. Purchaser is required to leave all cut or damaged reserve trees on site.

H-017 Preventing Excessive Soil Disturbance

Operations may be suspended when soil rutting exceeds 12 inches as measured from the natural ground line. To reduce soil damage, the Contract Administrator may require water bars to be constructed, grass seed to be placed on exposed soils, or other mitigation measures. Suspended operations shall not resume unless approval to do so has been given, in writing, by the Contract Administrator.

H-051 Branding and Painting

Purchaser shall provide a State of Washington registered log brand, acceptable to the State, unless the State agrees to furnish the brand. All purchased timber shall be branded in a manner that meets the requirements of WAC 240-15-030(2)(a)(i). All timber purchased under a contract designated as export restricted shall also be painted in a manner that meets the requirements of WAC 240-15-030(2)(a)(ii).

For pulp loads purchased under a contract designated as export restricted, Purchaser shall brand at least 3 logs with legible brands at one end. Also, 10 logs shall be painted at one end with durable red paint.

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H-120 Harvesting Equipment

Forest products sold under this contract shall be harvested and removed using Cable, Cable-Assist, Shovel and 6 Wheeled Skidder similar to Eco Tracks. Authority to use other equipment or to operate outside the equipment specifications detailed above must be approved in writing by the State.

H-125 Log Suspension Requirements

Lead-end suspension is required for all yarding activities.

H-127 Tailholds on Private Land

If Purchaser chooses to tailhold on private property, Purchaser shall obtain permit(s) and assumes responsibility for all costs and damages associated with the permit(s). Purchaser must provide the State with a copy of the executed permit(s) or a letter from the landowner indicating that a satisfactory tailhold permit(s) has been consummated between Purchaser and the landowner.

H-140 Special Harvest Requirements

Purchaser shall accomplish the following during the harvest operations:

- A. Active Haul Routes will be posted with CB channels by Purchaser.
- B. Ground based yarding equipment will not be permitted on sustained slopes over 45 percent.
- C. Self-Leveling ground based yarding equipment will not be permitted on sustained slopes over 60 percent.
- D. Sediment delivery from roads will not be allowed. Hauling operations will be shut down as needed until conditions improve or work can be completed that eliminates the delivery of sediment.
- E. 6 Wheeled skidder with tracks similar to ECO-TRACKSTM, will not be permitted on sustained slopes over 45 percent.
- F. Cable assist operations will not be permitted on slopes over 60 percent.

Permission to do otherwise must be granted in writing by the Contract Administrator.

H-190 Completion of Settings

Operations begun on any setting of the sale area shall be completed before any operation begins on subsequent settings unless authorized in writing by the Contract Administrator.

H-220 Protection of Residual or Adjacent Trees

Unless otherwise specified by this contract, the Contract Administrator shall identify damaged adjacent or leave trees that shall be paid for according to clause G-230.

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H-250 Additional Falling Requirements

Within all units, all non-merchantable hardwood stems 2 inches DBH or 10 feet tall, shall be felled concurrently with felling operations. Areas of young or immature timber may be excluded from this requirement by the Contract Administrator.

Section C: Construction and Maintenance

C-040 Road Plan

Road construction and associated work provisions of the Road Plan for this sale, dated 3/28/2023 are hereby made a part of this contract.

C-050 Purchaser Road Maintenance and Repair

Purchaser shall perform work at their own expense on all roads except the D-1300, D3000 and D-5000. All work shall be completed to the specifications detailed in the Road Plan.

C-060 Designated Road Maintainer

If required by the State, Purchaser shall perform maintenance and replacement work as directed by the Contract Administrator on all roads not listed in Clause C-050. Purchaser shall furnish a statement in a form satisfactory to the State showing the costs incurred while performing this work. Costs shall be based on the rates set forth in the equipment rate schedule on file at the Region office or Engineering Division in Olympia. The State shall reimburse Purchaser for said costs within 30 days of receipt and approval of the statement.

Section S: Site Preparation and Protection

S-001 Emergency Response Plan

An Emergency Response Plan (ERP) shall be provided to the Contract Administrator containing but not limited to, valid contact numbers and procedures for medical emergencies, fire, hazardous spills, forest practice violations and any unauthorized or unlawful activity on or in the vicinity of the sale area. The Contract Administrator and the State shall be promptly notified whenever an incident occurs requiring an emergency response.

The ERP must be presented for inspection at the prework meeting and kept readily available to all personnel, including subcontractors, on site during active operations.

S-010 Fire Hazardous Conditions

Purchaser acknowledges that operations under this Contract may increase the risk of fire. Purchaser shall conduct all operations under this agreement following the requirements of WAC 332-24-005 and WAC 332-24-405 and further agrees to use the highest degree of care to prevent uncontrolled fires from starting.

In the event of an uncontrolled fire, Purchaser agrees to provide equipment and personnel working at the site to safely and effectively engage in first response fire suppression activity.

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Purchaser's failure to effectively engage in fire-safe operations is considered a breach and may result in suspension of operations.

S-030 Landing Debris Clean Up

Landing debris shall be disposed of in a manner approved in writing by the Contract Administrator.

S-035 Logging Debris Clean Up

Slash and debris created from harvest activities shall be treated in a manner approved in writing by the Contract Administrator.

S-050 Cessation of Operations for Low Humidity

When the humidity is 30 percent or lower on the sale area, all operations must cease unless authority to continue is granted by the State in writing.

S-060 Pump Truck or Pump Trailer

Purchaser shall provide a fully functional pump truck or pump trailer equipped to meet the specifications of WAC 332-24-005 and WAC 332-24-405 during the "closed season" or as extended by the State and shall provide trained personnel to operate this equipment on the sale area during all operating periods.

S-130 Hazardous Materials

a. Hazardous Materials and Waste - Regulatory Compliance

Purchaser is responsible for understanding and complying with all applicable local, state, and federal hazardous material/waste laws and regulations for operations conducted under this contract. Such regulations pertain to, but may not be limited to, hazardous material storage, handling and transport, personnel protection, release notification and emergency response, cleanup, and waste disposal.

Purchaser shall be responsible for restoring the site in the event of a spill or other releases of hazardous material/waste during operations conducted under this contract.

b. Hazardous Materials Spill Prevention

All operations shall be conducted in a manner that avoids the release of hazardous materials, including petroleum products, into the environment (water, air or land).

c. Hazardous Materials Spill Containment, Control and Cleanup

If safe to do so, Purchaser shall take immediate action to contain and control all hazardous material spills. Purchaser shall ensure that enough quick

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response spill kits capable of absorbing 10 gallons of oil, coolant, solvent or contaminated water are available on site to quickly address potential spills from any piece of equipment at all times throughout active operations. If large quantities of bulk fuel/other hazardous materials are stored on site, Purchaser must be able to effectively control a container leak and contain & recover a hazmat spill equal to the largest single on site storage container volume. (HAZWOPER reg. 29CFR 1910.120 (j) (1) (vii)).

d. Hazardous Material Release Reporting

Releases of oil or hazardous materials to the environment must be reported according to the State Department of Ecology (ECY). It is the responsibility of the Purchaser to have all emergency contact information readily available and a means of remote communication for purposes of quick notification. In the event of a spill covered in part a., the Purchaser is responsible for immediately notifying all the following:

- -Department of Emergency Management at 1-800-258-5990
- -National Response Center at 1-800-424-8802
- -Appropriate Department of Ecology (ECY) at 1-800-645-7911
- -DNR Contract Administrator

S-131 Refuse Disposal

As required by RCW 70.93, All Purchaser generated refuse shall be removed from state lands for proper disposal prior to termination of this contract. No refuse shall be burned, buried or abandoned on state forest lands. All refuse shall be transported in a manner such that it is in compliance with RCW 70.93 and all loads or loose materials shall be covered/secured such that these waste materials are properly contained during transport.

Section D: Damages

D-013 Liquidated Damages or Failure to Perform

The following clauses provide for payments by Purchaser to the State for breaches of the terms of this contract other than failure to perform. These payments are agreed to as liquidated damages and not as penalties. They are reasonable estimates of anticipated harm to the State, which will be caused by Purchaser's breach. These liquidated damages provisions are agreed to by the State and Purchaser with the understanding of the difficulty of proving loss and the inconvenience or infeasibility of obtaining an adequate remedy. These liquidated damages provisions provide greater certainty for the Purchaser by allowing the Purchaser to better assess its responsibilities under the contract.

Clause P-020 governs Purchaser's liability in the event Purchaser fails to perform any of the contract requirements other than the below liquidated damage clauses without written approval by the State. Purchaser's failure to pay for all or part of the forest products sold in this contract prior to expiration of the contract term results in

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substantial injury to the State. Therefore, Purchaser agrees to pay the State the full lump sum contract price in P-020 in the event of failure to perform.

D-041 Reserve Tree Excessive Damage

When Purchaser's operations exceed the damage limits set forth in clause H-013, Reserve Tree Damage Definition, and when the Contract Administrator determines that a suitable replacement for a damaged reserve tree is not possible, the damaged trees result in substantial injury to the State. The value of the damaged reserve trees at the time of the breach is not readily ascertainable. Therefore, the Purchaser agrees to pay the State as liquidated damages at the rate of \$1,000.00 per tree for all damaged reserve trees that are not replaced in all harvest units.

SIGNATURES

This agreement may be executed in any number of counterparts (including by electronic mail in portable document format (.pdf), or by facsimile) each of which shall be deemed an original but all of which, when taken together, shall constitute one and the same Agreement binding on all parties.

IN WITNESS WHEREOF, the Parties hereto have entered into this contract.

	STATE OF WASHINGTON DEPARTMENT OF NATURAL RESOURCES
Purchaser	Scott Sargent Pacific Cascade Region Manager
Print Name	racine Cascade Region Manager
Date: Address:	Date:

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CORPORATE ACKNOWLEDGEMENT (Required for both LLC and Inc. Entities)

STATE OF)					
COUNTY OF)					
On this	day of		, 20	,	before n	ne perso	nally
			to 1	me		to be corpor	
free and voluntary	within and foregoing instry y act and deed of the corpo I that (he/she was) (they we	oration, for the	uses and p	urpo	ses there	in menti	
IN WITNESS WI year first above w	HEREOF, I have hereunto ritten.	set my hand an	nd affixed r	ny o	fficial sea	al the day	y and
		Notary	Public in a	and f	or the Sta	ate of	
		My app	pointment e	expir	es		

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PRE-CRUISE NARRATIVE

Sale Name: Humdinger	Region: Pacific Cascade
Agreement #: 30-104375	District: Lewis
Contact Forester:Garrett Hanson Phone / Location: 360-623-9632	County(s): Choose a county, Lewis
Alternate Contact:Jacob Vaughn Phone / Location: 360-880-5801	Other information: Click here to enter text.

Type of Sale: Lump Sum	
Harvest System: Ground based Click here to enter text.	80%
Harvest System: Uphill Cable Click here to enter text.	20%
Enter % of sale acres	
Harvest System: Select harvest system Click here to enter text.	Click here to enter percent
	sale acres.

UNIT ACREAGES AND METHOD OF DETERMINATION:

Unit #	Legal		gal	Dedu		rom Gro	ss Acres es)	Acres	Acreage
Harve st R/W or RMZ WMZ	Description (Enter only one legal for each unit) Sec/Twp/Rng	Grant or Trust	Gross Proposal Acres	RMZ/ WMZ Acres	Leave Tree Acres	Existing Road Acres	Other Acres (describe)	Net Harvest Ac	Determinatio n (List method and error of closure if applicable)
1	SEC5/ T14N/ R03W	6	96	26	4	3		63	Combination
2	SEC5/ T14N/ R03W	6	47	9	2	4		32	Combination
3	SEC5/ T14N/ R03W	6	19	8	1	0		10	Combination
4	SEC5&4/ T14N/ R03W	6	47	13	3	0		31	Combination
5	SEC9/ T14N/ R03W	1	33	12	1	1		19	Combination
6	SEC16&9/ T14N/ R03W	3	40	4	2	3		31	Combination
7	SEC16&17/ T14N/ R03W	3	35	15	1	1		18	Combination
8	SEC16/ T14N/ R03W	3	29	11	1	1		16	Combination
TOTAL ACRES			346	98	15	13		220	

HARVEST PLAN AND SPECIAL CONDITIONS:

Unit#	Harvest Prescription:	Special Management	Other conditions (#
	(Leave, take, paint color, tags, flagging	areas:	leave trees, etc.)
	etc.)		TCO 1 TTO 1-4
1	Variable retention harvest bound out by white "Timber Sale Boundary" tags with pink flagging. D-3500 & D-3540 are boundary on west side. A timber type change is the boundary to the north.	N/A	560 leave trees. 550 left in clumps bounded by both by white "Timber Sale Boundary Tags" and yellow "Leave Tree Area Tags" and 10 individual blue banded trees
2	general genera		304 leave trees. 204 left
	Variable retention harvest bound out by white "Timber Sale Boundary" tags with pink flagging, D-3000 to the east, small portion of the D-3030 to the south, and a recent harvest to the west.	N/A	in clumps bounded by white "Timber Sale Boundary Tags" and 10 individual blue banded trees
3	Variable retention harvest bound out by white "Timber Sale Boundary" tags with pink flagging. D-3400 is boundary to the west. A timber type change and a small portion of the D-3410 is the boundary to the south.	N/A	80 leave trees. 80 left in clumps bounded by white "Timber Sale Boundary Tags."
4	Variable retention harvest bound out by white "Timber Sale Boundary" tags with pink flagging. D-3220 is boundary to the east and a timber type change to the south.	N/A	370 leave trees. 367 left in clumps bounded by white "Timber Sale Boundary Tags" and 3 individual blue banded trees
5	Variable retention harvest bound out by white "Timber Sale Boundary" tags with pink flagging. The D-5000 is the boundary to the north.	N/A	168 leave trees. 164 left in clumps bounded by white "Timber Sale Boundary Tags" and 4 individual blue banded trees
6	Variable retention harvest bound out by white "Timber Sale Boundary" tags with pink flagging. D-5000 acts as a boundary. The D-5037 acts as boundary to the west. The D-5300 and D-5200 act as boundaries to the east. The north and east are timber type change.	N/A	288 leave trees. 281 left in clumps bounded by white "Timber Sale Boundary Tags" and 7 individual blue banded trees
7	Variable retention harvest bound out by white "Timber Sale Boundary" tags with pink flagging. To the north is a timber type change.	N/A	160 leave trees. 155 left in clumps bounded by white "Timber Sale Boundary Tags" and 5

			individual blue banded
			trees
8	Variable retention harvest bound out by		144 leave trees. 143 left
	white "Timber Sale Boundary" tags with		in clumps bounded by
	pink flagging. The D-5300 and D-5320		white "Timber Sale
	are the boundary to the northeast. A		Boundary Tags" and
	recent harvest is the boundary to the		and 1 individual blue
	south.	N/A	banded trees

OTHER PRE-CRUISE INFORMATION:

Unit	Primary,secondary	Access information	Photos, traverse
#	Species /	(Gates, locks, etc.)	maps required
	Estimated Volume		
	(MBF)		
		D-5000 @ Cooks hill (PCP 1-1)	
		D-5000 @ Green Diamond (PCP 1-1)	
1	1653 df	D-3000 @ Teague (PCP 1-1)	
		D-5000 @ Cooks hill (PCP 1-1)	
		D-5000 @ Green Diamond (PCP 1-1)	
2	732 df	D-3000 @ Teague (PCP 1-1)	
		D-5000 @ Cooks hill (PCP 1-1)	
		D-5000 @ Green Diamond (PCP 1-1)	
3	239 df	D-3000 @ Teague (PCP 1-1)	
		D-5000 @ Cooks hill (PCP 1-1)	
		D-5000 @ Green Diamond (PCP 1-1)	
4	833 df	D-3000 @ Teague (PCP 1-1)	
		D-5000 @ Cooks hill (PCP 1-1)	
		D-5000 @ Green Diamond (PCP 1-1)	
5	482 df	D-3000 @ Teague (PCP 1-1)	
6		D-5000 @ Cooks hill (PCP 1-1)	
		D-5000 @ Green Diamond (PCP 1-1)	
	713 df	D-3000 @ Teague (PCP 1-1)	
7		D-5000 @ Cooks hill (PCP 1-1)	
		D-5000 @ Green Diamond (PCP 1-1)	
	462 df	D-3000 @ Teague (PCP 1-1)	
8		D-5000 @ Cooks hill (PCP 1-1)	
		D-5000 @ Green Diamond (PCP 1-1)	
	398 df	D-3000 @ Teague (PCP 1-1)	
TOTAL	5539		
MBF	5558		

REMARKS:

This sale consists of 8 VRH units. This sale is located in the deep creek block so access should be good year round. All gates should be locked with PCP 1-1 locks.

Prepared By: Garrett Hanson	Title: Forester 2	CC: Rich Wallmow
Date: 1/27/2022		

Timber Sale Cruise Report Humdinger

Sale Name: HUMDINGER Sale Type: LUMP SUM Region: PACIFIC CASC

District: LEWIS

Lead Cruiser: AMHerrman

Other Cruisers: Cruise Narrative:

Location:

Humdinger is located approximately 5 miles west of Centralia, WA. It can be accessed from the north via Lincoln Creek Rd. or from the south via Cooks Hill Rd.

Most units are laid out directly along the D-5000 and D-3000 forest roads.

Cruise Design:

159 Variable Radius Plots were used to tally 744 trees, of which 352 were measured.

Diameters were measured to the nearest whole inch. Bole heights were measured to a 5" top or estimated break point. Trees were segmented into lengths based on a preference for long logs and taking into account location of defect. Preferred length for conifers is 40'. Preferred length for hardwoods is 30'.

Timber Quality:

Humdinger is composed of young, uniform, plantation-style Douglas-fir. Stocking is consistent across most units. Most trees contain small spike knots and/or have broken tops. Low ring counts in cored trees suggest modest production of high quality segments.

Logging and Stand Conditions:

A majority of the sale is laid out on flat-moderate slopes. Understory conditions are clear, foot travel and line of sight are excellent in most places.

Timber Sale Notice Volume (MBF)

				MBF Volume by Grade					
Sp	DBH	Rings/In	Age	All	2 Saw	3 Saw	4 Saw	Utility	
DF	13.7	5.5		5,443	450	3,665	1,242	87	
MA	11.9			52	10	7	11	24	
RA	11.7			37		5	22	10	
BC	13.0			7			7		
ALL	13.4	5.5		5,539	459	3,676	1,282	121	

Timber Sale Notice Weight (tons)

	Tons by Grade							
Sp	All	2 Saw	3 Saw	4 Saw	Utility			
DF	45,096	3,619	30,319	10,588	571			
MA	469	78	53	111	226			
RA	304		45	196	63			

	Tons by Grade									
Sp	All	2 Saw	3 Saw	4 Saw	Utility					
ВС	54			54						
ALL	45,924	3,697	30,418	10,949	860					

Timber Sale Overall Cruise Statistics

BA (sq ft/acre)			V-BAR SE (%)		
214.3	2.8	117.9	1.0	25,175	3.0

Timber Sale Unit Cruise Design

Unit	Design	Cruise Acres	FMA Acres	N Plots	N Cruise Plots	N Void Plots
HUMDINGER U1	B1C: VR, 1 BAF (46.94) Measure/ Count Plots, Sighting Ht = 4.5 ft	63.0	66.7	45	18	0
HUMDINGER U2	B1C: VR, 1 BAF (46.94) Measure/ Count Plots, Sighting Ht = 4.5 ft	32.0	38.0	22	9	0
HUMDINGER U3	B1C: VR, 1 BAF (46.94) Measure/ Count Plots, Sighting Ht = 4.5 ft	10.0	10.6	10	6	0
HUMDINGER U4	B1C: VR, 1 BAF (46.94) Measure/ Count Plots, Sighting Ht = 4.5 ft	31.0	37.4	21	9	0
HUMDINGER U5	B1C: VR, 1 BAF (46.94) Measure/ Count Plots, Sighting Ht = 4.5 ft	19.0	21.4	14	8	0
HUMDINGER U6	B1C: VR, 1 BAF (46.94) Measure/ Count Plots, Sighting Ht = 4.5 ft	31.0	31.2	22	9	0
HUMDINGER U7	B1C: VR, 1 BAF (40) Measure/Count Plots, Sighting Ht = 4.5 ft	18.0	14.6	13	7	1
HUMDINGER U8	B1C: VR, 1 BAF (40) Measure/Count Plots, Sighting Ht = 4.5 ft	16.0	17.2	12	6	0
All		220.0	237.1	159	72	1

Timber Sale Log Grade x Sort Summary

Sp	Status	Grade	Sort	Dia	Len	BF Gross	BF Net	Defect %	Tons	MBF Net
ВС	LIVE	4 SAW	Domestic	7.4	30	34	33	2.9	54.2	7.2
BC	LIVE	CULL	Cull	5.0	3	1	0	100.0	0.0	0.0
DF	LIVE	2 SAW	Domestic	12.9	40	1,983	1,926	2.9	3,423.2	423.7
DF	LIVE	2 SAW	HQ-B	13.9	40	122	118	3.3	195.3	26.0
DF	LIVE	3 SAW	Domestic	8.7	40	16,513	16,038	2.9	29,226.6	3,528.4
DF	LIVE	3 SAW	HQ-B	10.4	40	625	618	1.0	1,092.6	136.1
DF	LIVE	4 SAW	Domestic	5.2	31	5,823	5,645	3.1	10,587.4	1,241.9

Sp	Status	Grade	Sort	Dia	Len	BF Gross	BF Net	Defect %	Tons	MBF Net
DF	LIVE	CULL	Cull	5.3	8	241	0	100.0	0.0	0.0
DF	LIVE	UTILITY	Pulp	5.2	24	395	395	0.0	570.5	86.8
MA	LIVE	2 SAW	Domestic	20.9	30	57	43	25.0	78.4	9.5
MA	LIVE	3 SAW	Domestic	10.0	20	36	32	9.9	53.1	7.1
MA	LIVE	4 SAW	Domestic	7.0	30	53	51	4.4	111.4	11.2
MA	LIVE	CULL	Cull	5.5	6	10	0	100.0	0.0	0.0
MA	LIVE	UTILITY	Pulp	5.0	23	109	109	0.0	226.3	24.0
RA	LIVE	3 SAW	Domestic	11.0	30	22	21	6.4	45.3	4.6
RA	LIVE	4 SAW	Domestic	7.1	30	103	101	2.6	195.8	22.2
RA	LIVE	CULL	Cull	8.0	8	3	0	100.0	0.0	0.0
RA	LIVE	UTILITY	Pulp	5.0	23	45	45	0.0	63.4	9.9

Timber Sale Log Sort x Diameter Bin Summary

Sp	Bin	Status	Sort	Dia	Len	BF Net	Defect %	Tons	MBF Net
ВС	5 - 7	LIVE	Cull	5.0	3	0	100.0	0.0	0.0
BC	5 - 7	LIVE	Domestic	5.6	30	10	3.1	15.7	2.2
BC	8 - 11	LIVE	Domestic	9.1	30	23	2.8	38.4	5.0
DF	5 - 7	LIVE	Cull	5.2	7	0	100.0	0.0	0.0
DF	5 - 7	LIVE	Pulp	5.2	22	395	0.0	570.5	86.8
DF	5 - 7	LIVE	Domestic	5.7	33	9,627	3.0	17,986.9	2,118.0
DF	8 - 11	LIVE	Domestic	9.6	40	12,056	2.8	21,827.1	2,652.4
DF	8 - 11	LIVE	HQ-B	10.3	40	618	1.0	1,092.6	136.1
DF	12 - 19	LIVE	Domestic	12.8	40	1,926	2.9	3,423.2	423.7
DF	12 - 19	LIVE	Cull	13.0	10	0	100.0	0.0	0.0
DF	12 - 19	LIVE	HQ-B	13.9	40	118	3.3	195.3	26.0
MA	5 - 7	LIVE	Cull	5.0	4	0	100.0	0.0	0.0
MA	5 - 7	LIVE	Pulp	5.0	25	109	0.0	226.3	24.0
MA	5 - 7	LIVE	Domestic	6.2	30	37	1.8	73.9	8.1
MA	8 - 11	LIVE	Domestic	9.5	24	46	10.1	90.5	10.2
MA	8 - 11	LIVE	Cull	10.3	19	0	100.0	0.0	0.0
MA	20+	LIVE	Domestic	20.9	30	43	25.0	78.4	9.5
RA	5 - 7	LIVE	Pulp	5.0	23	45	0.0	63.4	9.9
RA	5 - 7	LIVE	Domestic	6.0	30	48	1.4	91.4	10.6
RA	8 - 11	LIVE	Cull	8.0	8	0	100.0	0.0	0.0
RA	8 - 11	LIVE	Domestic	8.9	30	73	4.4	149.6	16.1

Unit Sale Notice Volume (MBF): HUMDINGER U1

				MBF Volume by Grade						
Sp	DBH	Rings/In	Age	All	2 Saw	3 Saw	4 Saw	Utility		
DF	15.9	5.6		1,629	275	1,093	261			
MA	9.5			12			3	9		
BC	13.0			7			7			
RA	8.0			5				5		
ALL	15.1	5.6		1,653	275	1,093	271	14		

Unit Cruise Design: HUMDINGER U1

Design	Cruise	FMA	N	N Cruise	N Void
	Acres	Acres	Plots	Plots	Plots
B1C: VR, 1 BAF (46.94) Measure/Count Plots, Sighting Ht = 4.5 ft	63.0	66.7	45	18	0

Unit Cruise Summary: HUMDINGER U1

Sp	Cruised Trees	All Trees	Trees/Plot	Ring-Count Trees
DF	77	196	4.4	4
MA	3	3	0.1	0
ВС	1	1	0.0	0
RA	1	1	0.0	0
ALL	82	201	4.5	4

Unit Cruise Statistics: HUMDINGER U1

Sp	BA (sq ft/acre)	BA CV (%)	BA SE (%)	V-BAR (bf/sq ft)	V-BAR CV (%)	V-BAR SE (%)	Net Vol (bf/acre)	Vol CV (%)	Vol SE (%)
DF	204.4	34.7	5.2	126.5	11.1	1.3	25,854	36.4	5.3
MA	3.1	378.4	56.4	60.8	26.4	15.2	190	379.3	58.4
BC	1.0	670.8	100.0	109.6	0.0	0.0	114	670.8	100.0
RA	1.0	670.8	100.0	74.5	0.0	0.0	78	670.8	100.0
ALL	209.7	33.6	5.0	125.1	15.5	1.7	26,236	37.0	5.3

Sp	Status	Rx	N	D	DBH	BL	THT	BF Gross	BF Net	Defect %	TPA	ВА	RD	MBF Net
ВС	LIVE	CUT	1	ALL	13.0	66	88	121	114	5.6	1.1	1.0	0.3	7.2
DF	LIVE	CUT	77	ALL	15.9	74	97	26,578	25,854	2.7	148.3	204.4	51.3	1,628.8
MA	LIVE	CUT	3	ALL	9.5	27	45	196	190	3.0	6.4	3.1	1.0	12.0
RA	LIVE	CUT	1	ALL	8.0	25	86	78	78	0.0	3.0	1.0	0.4	4.9
ALL	LIVE	CUT	82	ALL	15.6	71	95	26,973	26,236	2.7	158.8	209.7	52.9	1,652.9
ALL	ALL	ALL	82	ALL	15.6	71	95	26,973	26,236	2.7	158.8	209.7	52.9	1,652.9

Unit Sale Notice Volume (MBF): HUMDINGER U2

				MBF Volume by Grade						
Sp	DBH	Rings/In	Age	All	2 Saw	3 Saw	4 Saw	Utility		
DF	13.1			725	48	518	124	35		
MA	15.0			7		7				
ALL	13.2			732	48	525	124	35		

Unit Cruise Design: HUMDINGER U2

Design	Cruise	FMA	N	N Cruise	N Void
	Acres	Acres	Plots	Plots	Plots
B1C: VR, 1 BAF (46.94) Measure/Count Plots, Sighting Ht = 4.5 ft	32.0	38.0	22	9	0

Unit Cruise Summary: HUMDINGER U2

Sp	Cruised Trees	All Trees	Trees/Plot	Ring-Count Trees
DF	41	91	4.1	0
MA	1	2	0.1	0
ALL	42	93	4.2	0

Unit Cruise Statistics: HUMDINGER U2

Sp	BA (sq ft/acre)	BA CV (%)		V-BAR (bf/sq ft)	V-BAR CV (%)	V-BAR SE (%)	Net Vol (bf/acre)	Vol CV (%)	Vol SE (%)
DF	194.2	32.8	7.0	116.7	17.5	2.7	22,663	37.1	7.5
MA	4.3	469.0	100.0	52.2	0.0	0.0	223	469.0	100.0
ALL	198.4	28.2	6.0	115.3	19.5	3.0	22,886	34.3	6.7

Sp	Status	Rx	N	D	DBH	BL	THT	BF Gross	BF Net	Defect %	TPA	ВА	RD	MBF Net
DF	LIVE	CUT	41	ALL	13.1	61	88	23,780	22,663	4.7	207.4	194.2	53.6	725.2
MA	LIVE	CUT	1	ALL	15.0	21	37	247	223	9.9	3.5	4.3	1.1	7.1
ALL	LIVE	CUT	42	ALL	13.1	60	88	24,027	22,886	4.8	210.9	198.4	54.7	732.3
ALL	ALL	ALL	42	ALL	13.1	60	88	24,027	22,886	4.8	210.9	198.4	54.7	732.3

Unit Sale Notice Volume (MBF): HUMDINGER U3

				MBF Volume by Grade					
Sp	DBH	Rings/In	Age	All	2 Saw	3 Saw	4 Saw		
DF	16.0	5.9		229	51	145	33		
RA	12.6			10			10		
ALL	15.5	5.9		239	51	145	43		

Unit Cruise Design: HUMDINGER U3

Design	Cruise	FMA	N	N Cruise	N Void
	Acres	Acres	Plots	Plots	Plots
B1C: VR, 1 BAF (46.94) Measure/Count Plots, Sighting Ht = 4.5 ft	10.0	10.6	10	6	0

Unit Cruise Summary: HUMDINGER U3

Sp	Cruised Trees	All Trees	Trees/Plot	Ring-Count Trees
DF	25	39	3.9	2
RA	3	3	0.3	0
ALL	28	42	4.2	2

Unit Cruise Statistics: HUMDINGER U3

Sp	BA (sq ft/acre)	BA CV (%)	BA SE (%)	V-BAR (bf/sq ft)	V-BAR CV (%)	V-BAR SE (%)	Net Vol (bf/acre)	Vol CV (%)	Vol SE (%)
DF	183.1	39.1	12.4	124.9	18.1	3.6	22,861	43.1	12.9
RA	14.1	161.0	50.9	72.4	53.3	30.8	1,019	169.6	59.5
ALL	197.1	33.3	10.5	121.1	24.0	4.5	23,880	41.0	11.5

Sp	Status	Rx	N	D	DBH	BL	THT	BF Gross	BF Net	Defect %	TPA	ВА	RD	MBF Net
DF	LIVE	CUT	25	ALL	16.0	75	102	24,220	22,861	5.6	131.1	183.1	45.8	228.6
RA	LIVE	CUT	3	ALL	12.6	46	66	1,117	1,019	8.7	16.3	14.1	4.0	10.2
ALL	LIVE	CUT	28	ALL	15.7	71	98	25,337	23,880	5.7	147.4	197.1	49.7	238.8
ALL	ALL	ALL	28	ALL	15.7	71	98	25,337	23,880	5.7	147.4	197.1	49.7	238.8

Unit Sale Notice Volume (MBF): HUMDINGER U4

				MBF Volume by Grade						
Sp	DBH	Rings/In	Age	All	3 Saw	4 Saw	Utility			
DF	12.6	5.5		809	567	211	31			
RA	12.2			22	5	12	5			
MA	14.0			2			2			
ALL	12.6	5.5		833	572	222	38			

Unit Cruise Design: HUMDINGER U4

Design	Cruise	FMA	N	N Cruise	N Void
	Acres	Acres	Plots	Plots	Plots
B1C: VR, 1 BAF (46.94) Measure/Count Plots, Sighting Ht = 4.5 ft	31.0	37.4	21	9	0

Unit Cruise Summary: HUMDINGER U4

Sp	Cruised Trees	All Trees	Trees/Plot	Ring-Count Trees
DF	42	102	4.9	1
RA	3	3	0.1	0
MA	1	1	0.0	0
ALL	46	106	5.0	1

Unit Cruise Statistics: HUMDINGER U4

Sp	BA (sq ft/acre)	BA CV (%)	BA SE (%)	V-BAR (bf/sq ft)	V-BAR CV (%)	V-BAR SE (%)	Net Vol (bf/acre)	Vol CV (%)	Vol SE (%)
DF	228.0	47.5	10.4	114.5	18.6	2.9	26,099	51.0	10.8
RA	6.7	334.7	73.0	103.6	27.4	15.8	694	335.8	74.7
MA	2.2	458.3	100.0	32.7	0.0	0.0	73	458.3	100.0
ALL	236.9	42.2	9.2	113.4	21.6	3.2	26,866	47.4	9.8

Sp	Status	Rx	N	D	DBH	BL	THT	BF Gross	BF Net	Defect %	TPA	ВА	RD	MBF Net
DF	LIVE	CUT	42	ALL	12.6	57	87	27,069	26,099	3.6	263.3	228.0	64.2	809.1
MA	LIVE	CUT	1	ALL	14.0	34	43	73	73	0.0	2.1	2.2	0.6	2.3

Sp	Status	Rx	N	D	DBH	BL	THT	BF Gross	BF Net	Defect %	TPA	ВА	RD	MBF Net
RA	LIVE	CUT	3	ALL	12.2	54	76	712	694	2.4	8.3	6.7	1.9	21.5
ALL	LIVE	CUT	46	ALL	12.6	57	86	27,854	26,866	3.5	273.7	236.9	66.7	832.9
ALL	ALL	ALL	46	ALL	12.6	57	86	27,854	26,866	3.5	273.7	236.9	66.7	832.9

Unit Sale Notice Volume (MBF): HUMDINGER U5

				MBF Volume by Grade							
Sp	DBH	Rings/In	Age	All	2 Saw	3 Saw	4 Saw	Utility			
DF	12.4			482	18	321	132	11			
ALL	12.4			482	18	321	132	11			

Unit Cruise Design: HUMDINGER U5

Design	Cruise	FMA	N	N Cruise	N Void
	Acres	Acres	Plots	Plots	Plots
B1C: VR, 1 BAF (46.94) Measure/Count Plots, Sighting Ht = 4.5 ft	19.0	21.4	14	8	0

Unit Cruise Summary: HUMDINGER U5

Sp	Cruised Trees	All Trees	Trees/Plot	Ring-Count Trees
DF	37	62	4.4	0
ALL	37	62	4.4	0

Unit Cruise Statistics: HUMDINGER U5

Sp	BA (sq ft/acre)			V-BAR (bf/sq ft)	V-BAR CV (%)				Vol SE (%)
DF	207.9	37.3	10.0	122.0	18.5	3.0	25,368	41.6	10.4
ALL	207.9	37.3	10.0	122.0	18.5	3.0	25,368	41.6	10.4

Sp	Status	Rx	N	D	DBH	BL	THT	BF Gross	BF Net	Defect %	TPA	ВА	RD	MBF Net
DF	LIVE	CUT	37	ALL	12.4	61	91	26,189	25,368	3.1	247.9	207.9	59.0	482.0
ALL	LIVE	CUT	37	ALL	12.4	61	91	26,189	25,368	3.1	247.9	207.9	59.0	482.0
ALL	ALL	ALL	37	ALL	12.4	61	91	26,189	25,368	3.1	247.9	207.9	59.0	482.0

Unit Sale Notice Volume (MBF): HUMDINGER U6

				MBF Volume by Grade						
Sp	DBH	Rings/In	Age	All	2 Saw	3 Saw	4 Saw	Utility		
DF	12.8			719	58	423	232	5		
MA	12.9			21	10		8	4		
ALL	12.8			740	68	423	241	8		

Unit Cruise Design: HUMDINGER U6

Design	Cruise	FMA	N	N Cruise	N Void
	Acres	Acres	Plots	Plots	Plots
B1C: VR, 1 BAF (46.94) Measure/Count Plots, Sighting Ht = 4.5 ft	31.0	31.2	22	9	0

Unit Cruise Summary: HUMDINGER U6

Sp	Cruised Trees	All Trees	Trees/Plot	Ring-Count Trees
DF	40	103	4.7	0
MA	5	5	0.2	0
ALL	45	108	4.9	0

Unit Cruise Statistics: HUMDINGER U6

Sp	BA (sq ft/acre)	BA CV (%)		V-BAR (bf/sq ft)	V-BAR CV (%)			Vol CV (%)	Vol SE (%)
DF	219.8	36.3	7.7	105.5	22.0	3.5	23,184	42.5	8.5
MA	10.7	301.6	64.3	63.7	16.4	7.3	679	302.0	64.7
ALL	230.4	31.4	6.7	103.6	24.8	3.7	23,863	40.0	7.6

Sp	Status	Rx	N	D	DBH	BL	THT	BF Gross	BF Net	Defect %	TPA	ВА	RD	MBF Net
DF	LIVE	CUT	40	ALL	12.8	55	84	24,183	23,184	4.1	245.9	219.8	61.4	718.7
MA	LIVE	CUT	5	ALL	12.9	34	49	858	679	20.8	11.8	10.7	3.0	21.1
ALL	LIVE	CUT	45	ALL	12.8	55	83	25,042	23,863	4.7	257.7	230.4	64.4	739.8
ALL	ALL	ALL	45	ALL	12.8	55	83	25,042	23,863	4.7	257.7	230.4	64.4	739.8

Unit Sale Notice Volume (MBF): HUMDINGER U7

				MBF Volume by Grade							
Sp	DBH	Rings/In	Age	All	3 Saw	4 Saw	Utility				
DF	12.4	4.8		462	338	122	2				
ALL	12.4	4.8		462	338	122	2				

Unit Cruise Design: HUMDINGER U7

Design	Cruise	FMA	N	N Cruise	N Void
	Acres	Acres	Plots	Plots	Plots
B1C: VR, 1 BAF (40) Measure/Count Plots, Sighting Ht = 4.5 ft	18.0	14.6	13	7	1

Unit Cruise Summary: HUMDINGER U7

Sp	Cruised Trees	All Trees	Trees/Plot	Ring-Count Trees
DF	33	64	4.9	1
ALL	33	64	4.9	1

Unit Cruise Statistics: HUMDINGER U7

Sp	BA (sq ft/acre)				V-BAR CV (%)		Net Vol (bf/acre)	Vol CV (%)	Vol SE (%)
DF	196.9	35.6	9.9	130.4	12.7	2.2	25,687	37.8	10.1
ALL	196.9	35.6	9.9	130.4	12.7	2.2	25,687	37.8	10.1

Sp	Status	Rx	N	D	DBH	BL	THT	BF Gross	BF Net	Defect %	TPA	ВА	RD	MBF Net
DF	LIVE	CUT	33	ALL	12.4	66	98	26,391	25,687	2.7	234.8	196.9	55.9	462.4
ALL	LIVE	CUT	33	ALL	12.4	66	98	26,391	25,687	2.7	234.8	196.9	55.9	462.4
ALL	ALL	ALL	33	ALL	12.4	66	98	26,391	25,687	2.7	234.8	196.9	55.9	462.4

Unit Sale Notice Volume (MBF): HUMDINGER U8

				MBF Volume by Grade					
Sp	DBH	Rings/In	Age	All	3 Saw	4 Saw	Utility		
DF	11.2			388	258	127	3		
MA	9.9			9			9		
ALL	11.1			398	258	127	12		

Unit Cruise Design: HUMDINGER U8

Design	Cruise	FMA	N	N Cruise	N Void
	Acres	Acres	Plots	Plots	Plots
B1C: VR, 1 BAF (40) Measure/Count Plots, Sighting Ht = 4.5 ft	16.0	17.2	12	6	0

Unit Cruise Summary: HUMDINGER U8

Sp	Cruised Trees	All Trees	Trees/Plot	Ring-Count Trees
DF	36	65	5.4	0
MA	3	3	0.3	0
ALL	39	68	5.7	0

Unit Cruise Statistics: HUMDINGER U8

Sp	BA (sq ft/acre)			V-BAR (bf/sq ft)	V-BAR CV (%)			Vol CV (%)	Vol SE (%)
DF	216.7	37.3	10.8	112.0	16.3	2.7	24,263	40.7	11.1
MA	10.0	346.4	100.0	58.1	44.1	25.5	581	349.2	103.2
ALL	226.7	40.1	11.6	109.6	21.5	3.4	24,844	45.4	12.1

Sp	Status	Rx	N	D	DBH	BL	THT	BF Gross	BF Net	Defect %	TPA	ВА	RD	MBF Net
DF	LIVE	CUT	36	ALL	11.2	56	88	25,953	24,263	6.5	316.7	216.7	64.7	388.2
MA	LIVE	CUT	3	ALL	9.9	30	51	581	581	0.0	18.7	10.0	3.2	9.3
ALL	LIVE	CUT	39	ALL	11.1	55	86	26,533	24,844	6.4	335.4	226.7	67.9	397.5
ALL	ALL	ALL	39	ALL	11.1	55	86	26,533	24,844	6.4	335.4	226.7	67.9	397.5



	18		FPA/N No:	2941767				
	u sal		Effective Date:	8/30/2023				
MATI	RALLE		Expiration Date:	8/30/2026				
Forest Practices App	olication/Notif	ication	Shut Down Zone: 655;.					
Notice of	Decision		EARR Tax Credit:	■ Eligible	☐ Non-eligible			
			Reference:	Humdinger T	BS			
				30-104375				
<u>Decision</u>								
☐ Notification Accepted	Operations shall	not begin before	the effective date.					
■ Approved	This Forest Practices Application is subject to the conditions listed below.							
☐ Disapproved	This Forest Prac	tices Application	is disapproved for th	e reasons liste	d below.			
☐ Withdrawn	Applicant has wi	thdrawn the Fore	st Practices Applicat	ion/Notification	(FPA/N).			
□ Closed	All forest practic	es obligations are	e met.					
FPA/N Classification			Number of Ye	ars Granted o	n Multi-Year Request			
☐ Class III ■ Class III	□ Class IVG	☐ Class IVS	☐ 4 years	☐ 5 years				
Conditions on Approval/R	easons for Disar	proval						
No additional conditions.								

<u>Conditions on Approval/Reasons for Disapprova</u>
--

Issued By: Eric	Weinke	Region: Pacific Cascade Region
Title: Forest Pra	ctices Forester	Date: 8/30/2023
Copies to:	☐ Landowner, Tim	nber Owner and Operator
Issued in person:	■ LO ■TO ■ OP	By: Jalqui Palw Date: 3/30/23
5000 L 501/h	I M. C 4 D dai-	Page 1 of 2

Appeal Information

You have thirty (30) days to *file* (i.e., *actually deliver*) an appeal in writing of this Decision and any related State Environmental Policy Act (SEPA) determinations to the Pollution Control Hearings Board, the Attorney General's Office, and the Department of Natural Resources' region office. See <u>RCW 76.09.205</u>. The appeal period starts when the applicant receives this decision, which usually happens electronically on the date indicated below.

You must file your appeal at all three addresses below:

Pollution Control Hearings Board	Office of the Attorney General Natural Resources Division	Department Of Natural Resources Pacific Cascade Region
Physical Address 1111 Israel Road, SW Suite 301 Turnwater, WA 98501	Physical Address 1125 Washington Street, SE Olympia, WA 98504	Physical Address 601 Bond Rd Castle Rock WA 98611
Mailing address Post Office Box 40903 Olympia, WA 98504-0903	Mailing Address Post Office Box 40100 Olympia, WA 98504-0100	Mailing Address Post Office Box 280 Castle Rock, WA 98611-0280

Information regarding the Pollution Control Hearings Board can be found at: https://eluho.wa.gov

Other Applicable Laws

Operating as described in this application/notification does not ensure compliance with the Endangered Species Act, or other federal, state, or local laws.

Transfer of Forest Practices Application/Notification (WAC 222-20-010)

Use the "Notice of Transfer of Approved Forest Practices Application/Notification" form. This form is available at region offices and on the Forest Practices website https://www.dnr.wa.gov/programs-and-services/forest-practices/review-applications-fpars/forest-practices-forms-and. Notify DNR of new Operators within 48 hours.

Continuing Forestland Obligations (RCW 76.09.060, RCW 76.09.070, RCW 76.09.390, and WAC 222-20-055)

Obligations include reforestation, road maintenance and abandonment plans, conversions of forestland to non-forestry use and/or harvest strategies on perennial non-fish habitat (Type Np) waters in Eastern Washington.

Before the sale or transfer of land or perpetual timber rights subject to continuing forest and obligations, the seller must notify the buyer of such an obligation on a form titled "Notice of Continuing Forest Land Obligation". The seller and buyer must both sign the "Notice of Continuing Forest Land Obligation" form and send it to the DNR Region Office for retention. This form is available at DNR region offices.

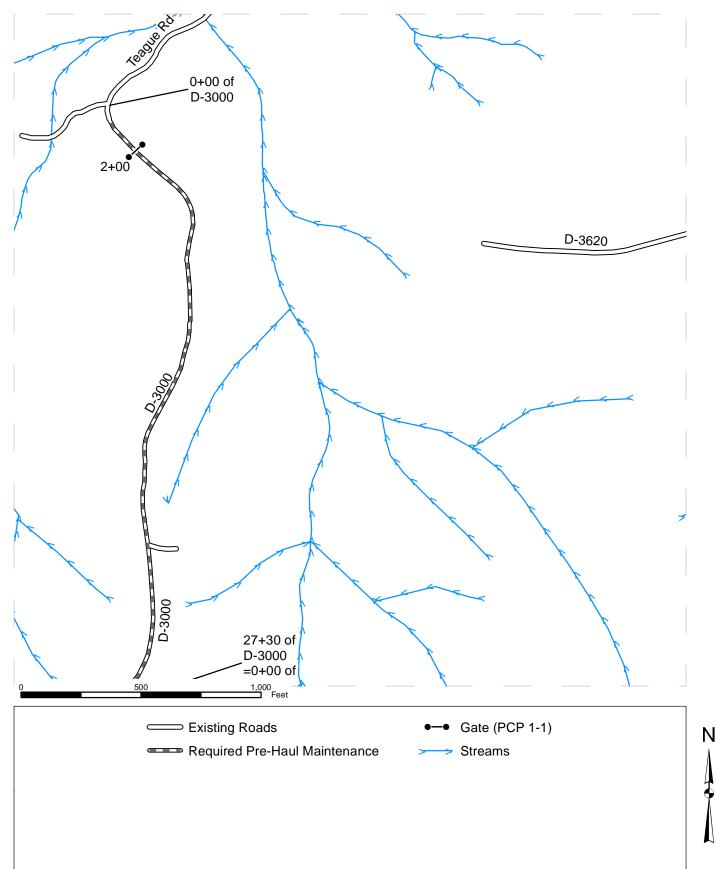
If the seller fails to notify the buyer about the continuing forestland obligation, the seller must pay the buyer's costs related to continuing forestland obligations, including all legal costs and reasonable attorneys' fees incurred by the buyer in enforcing the continuing forestland obligation against the seller.

Failure by the seller to send the required notice to DNR at the time of sale will be prima facie evidence in an action by the buyer against the seller for costs related to the continuing forestland obligation prior to sale.

SALE NAME: HUMDINGER Pacific Cascade Region

REGION: Pacific C COUNTY(S): Lewis ELEVATION RGE: 240-800 **AGREEMENT#**: 30-104375 TOWNSHIP(S): T14R03W

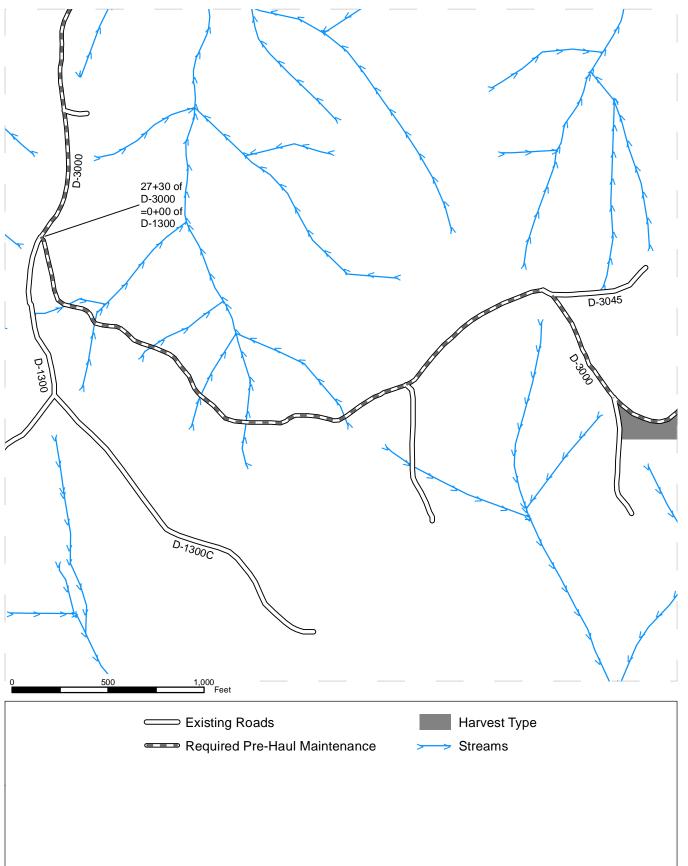
TRUST(S): Charitable/Educational/Penal & Reformatory Instit. (6), Common School and Indemnity (3), State Forest Transfer (1), University-Transferred(5)



SALE NAME: HUMDING AGREEMENT#: 30-104375 HUMDINGER Pacific Cascade Region

REGION: Pacific C COUNTY(S): Lewis ELEVATION RGE: 240-800 TOWNSHIP(S): T14R03W

TRUST(S): Charitable/Educational/Penal & Reformatory Instit. (6), Common School and Indemnity (3), State Forest Transfer (1), University-Transferred(5)

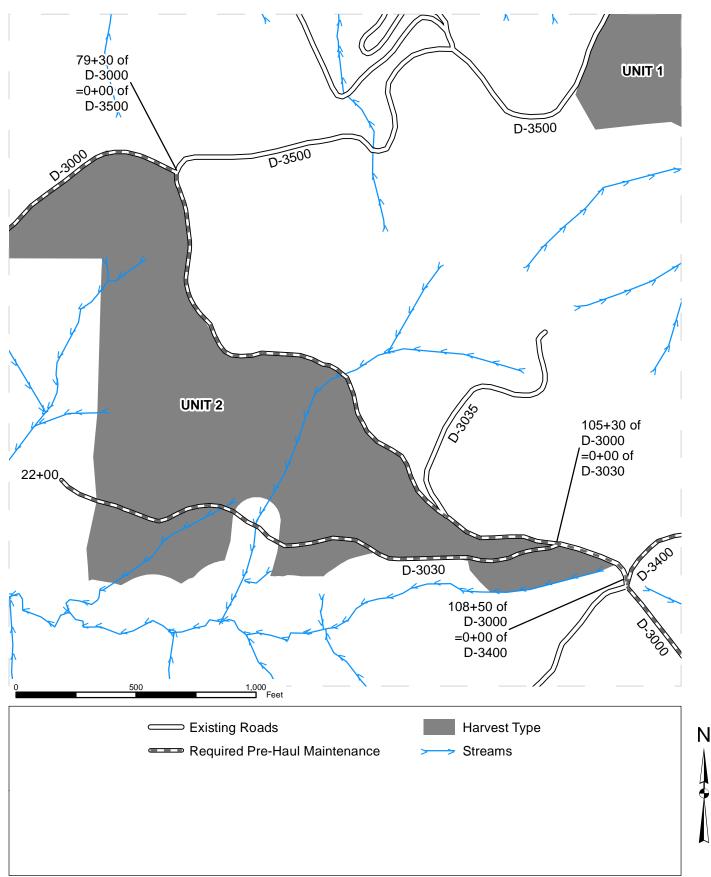


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HUMDINGER SALE NAME: Pacific Cascade Region

REGION: COUNTY(S): **AGREEMENT#**: 30-104375 Lewis TOWNSHIP(S): T14R03W ELEVATION RGE: 240-800

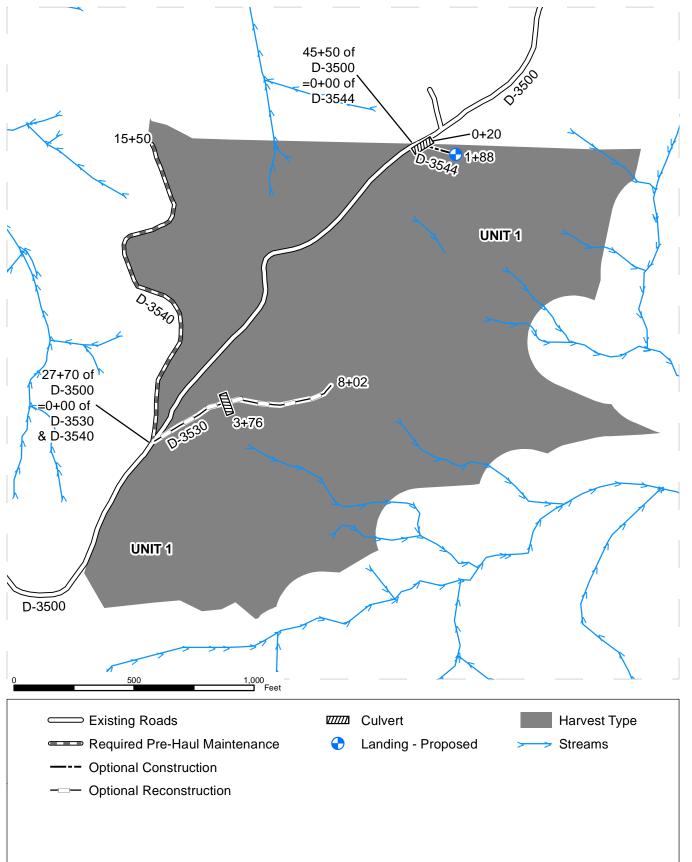
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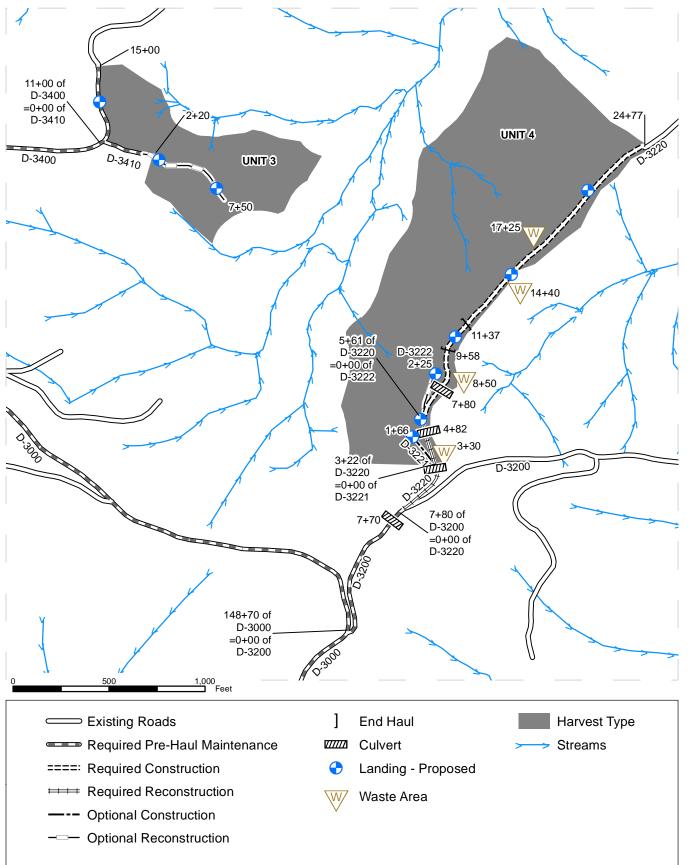
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AGREEMENT#: 30-104375

TOWNSHIP(S): T14R03W

COUNTY(S): Lewis
ELEVATION RGE: 240-800

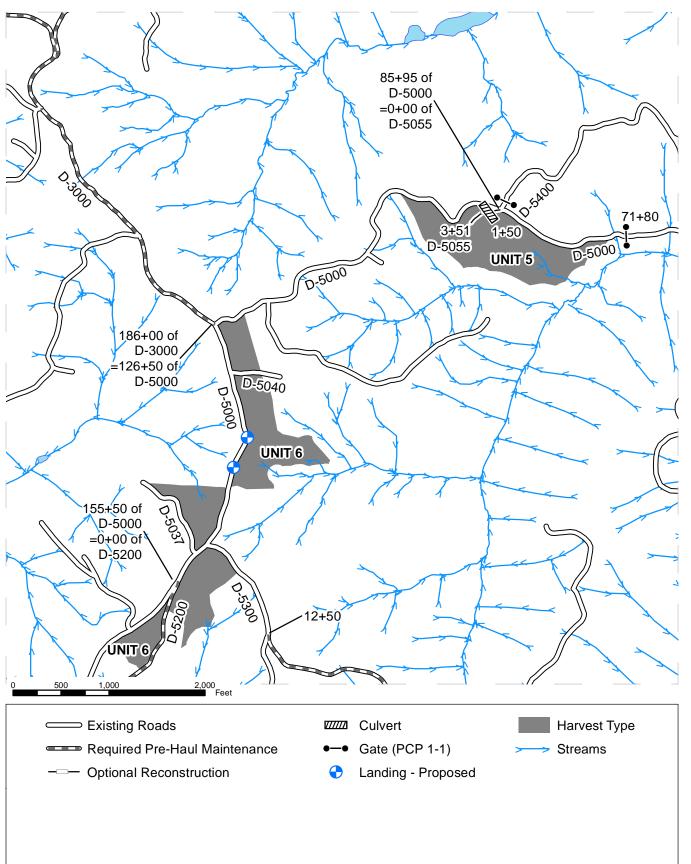
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REGION: COUNTY(S): **HUMDINGER** SALE NAME: Pacific Cascade Region

AGREEMENT#: 30-104375 Lewis TOWNSHIP(S): T14R03W ELEVATION RGE: 240-800

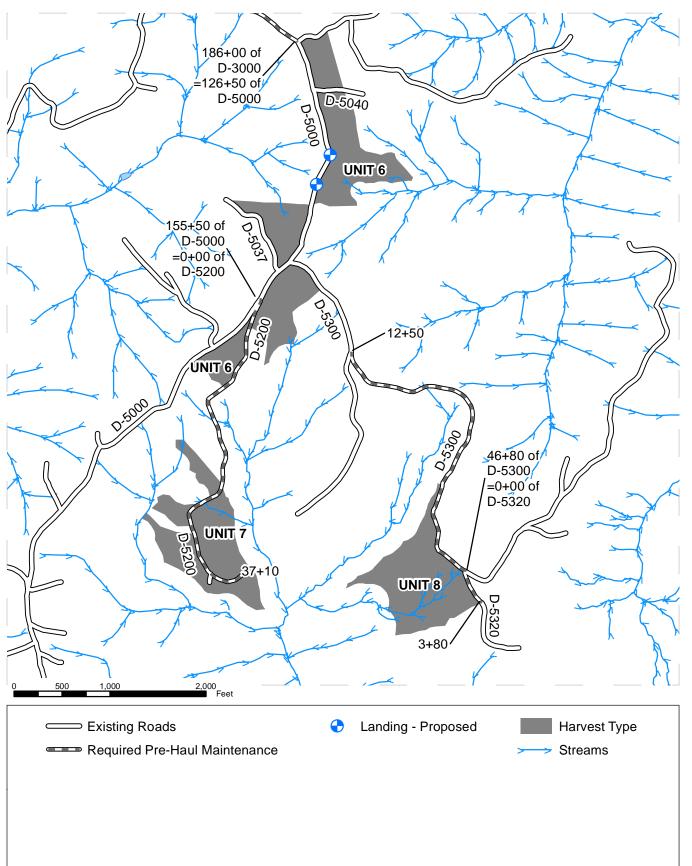
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REGION: COUNTY(S): HUMDINGER SALE NAME: Pacific Cascade Region

AGREEMENT#: 30-104375 Lewis TOWNSHIP(S): T14R03W ELEVATION RGE: 240-800

TRUST(S): Charitable/Educational/Penal & Reformatory Instit. (6), Common School and Indemnity (3), State Forest Transfer (1), University-Transferred(5)



STATE OF WASHINGTON DEPARTMENT OF NATURAL RESOURCES HUMDINGER TIMBER SALE ROAD PLAN LEWIS COUNTY LEWIS DISTRICT PACIFIC CASCADE REGION

AGREEMENT NO.: 30-104375 STAFF ENGINEER: RICH WALLMOW

DRAWN & COMPILED BY: ALICIA COMPTON

SECTION 0 – SCOPE OF PROJECT

0-1 ROAD PLAN SCOPE

Clauses in this road plan apply to all road related work, including landings and rock acquisition, unless otherwise noted.

0-2 REQUIRED ROADS

The specified work on the following roads is required.

<u>Road</u>	<u>Stations</u>	<u>Type</u>
D-3000	0+00 to 186+00	Pre-haul Maintenance
D-3540	0+00 to 15+50	Pre-haul Maintenance
D-3030	0+00 to 22+00	Pre-haul Maintenance
D-3400	0+00 to 15+00	Pre-haul Maintenance
D-3410	0+00 to 2+20	Pre-haul Maintenance
D-3200	0+00 to 7+80	Pre-haul Maintenance
D-3220	0+00 to 5+61	Reconstruction
D-3220	5+61 to 24+77	Construction
D-5300	12+50 to 46+80	Pre-haul Maintenance
D-5320	0+00 to 3+80	Pre-haul Maintenance
D-5200	0+00 to 37+10	Pre-haul Maintenance

HUMDINGER 30-104375 FINALIZED DATE: JULY 20, 2023 Page 1 of 45

0-3 OPTIONAL ROADS

The specified work on the following roads is not required. Any optional roads built by the Purchaser must meet all the specifications in the road plan.

<u>Road</u>	<u>Stations</u>	<u>Type</u>
D-3530	0+00 to 8+02	Reconstruction
D-3544	0+00 to 1+88	Construction
D-3410	2+20 to 7+50	Reconstruction
D-3221	0+00 to 1+66	Construction
D-3222	0+00 to 2+25	Reconstruction
D-5055	0+00 to 3+51	Reconstruction

0-4 CONSTRUCTION

Construction includes, but is not limited to: clearing; grubbing; right-of-way debris disposal; excavation and/or embankment to subgrade; full bench construction; endhaul; compaction; waste area construction; landing construction; acquisition and installation of drainage structures; acquisition and application of rock.

0-5 RECONSTRUCTION

This project includes, but is not limited to the following reconstruction requirements:

<u>Road</u>	<u>Stations</u>	<u>Requirements</u>
D-3530	0+00 to 8+02	Widen subgrade to the dimensions shown on the Typical Section Sheet; install culverts as shown on the CULVERT LIST; grade, shape and compact existing road surface; apply rock as shown on the ROCK LIST; grade, shape and compact the applied rock.
D-3410	2+20 to 7+50	Widen subgrade to the dimensions shown on the Typical Section Sheet; grade, shape and compact existing road surface; apply rock as shown on the ROCK LIST; grade, shape, and compact existing road surface.
D-3220	0+00 to 5+61	Widen subgrade to the dimensions shown on the Typical Section Sheet; install culverts as shown on the CULVERT LIST; grade, shape and compact existing road surface; apply rock as shown on the ROCK LIST; grade, shape, and compact existing road surface.

HUMDINGER 30-104375 FINALIZED DATE: JULY 20, 2023

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0-5 RECONSTRUCTION CONTINUED

<u>Road</u>	<u>Stations</u>	<u>Requirements</u>
D-3222	0+00 to 2+25	Widen subgrade to the dimensions shown on the Typical Section Sheet; grade, shape and compact existing road surface; apply rock as shown on the ROCK LIST; grade, shape, and compact existing road surface.
D-5055	0+00 to 3+51	Widen subgrade to the dimensions shown on the Typical Section Sheet; install culverts as shown on the CULVERT LIST; grade, shape and compact existing road surface; apply rock as shown on the ROCK LIST; grade, shape, and compact existing road surface.

0-6 PRE-HAUL MAINTENANCE

This project includes, but is not limited to the following pre-haul maintenance requirements:

Road	<u>Stations</u>	<u>Requirements</u>
D-3000	0+00 to 186+00	Brush in accordance with clause 3-1; clean ditches and culverts in accordance with clauses 2-6 and 2-7. Grade, compact and apply rock in accordance with ROCK LIST.
D-3540	0+00 to 15+50	Brush; clean ditches and culverts; grade, compact and apply spot rock in accordance with ROCK LIST.
D-3030	0+00 to 22+00	Brush; clean ditches and culverts; grade, compact and apply spot rock in accordance with ROCK LIST.
D-3400	0+00 to 15+00	Brush; clean ditches and culverts.
D-3410	0+00 to 2+20	Clean ditch and culverts in accordance with clauses 2-6 and 2-7. Grade, shape and compact existing road surface; apply rock as shown on the ROCK LIST; grade, shape and compact the applied rock.
D-3200	0+00 to 7+80	Clean ditches and culverts in accordance with clauses 2-6 and 2-7; install culvert as shown on the CULVERT LIST; Grade, compact and apply rock in accordance with ROCK LIST.
D-5300	12+50 to 46+80	Brush; clean ditches and culverts.
D-5320	0+00 to 3+80	Brush; clean ditches and culverts.
D-5200	0+00 to 37+10	Brush; clean ditches and culverts; grade (desod).

HUMDINGER 30-104375

0-7 POST-HAUL MAINTENANCE

This project includes post-haul road maintenance listed in Clause 9-5 POS 5 .

POST-HAUL MAINTENANCE 9-

SECTION 1 – GENERAL

1-1 ROAD PLAN CHANGES

If the Purchaser desires a change from this road plan including, but not limited to, relocation, extension, change in design, or adding roads; a revised road plan must be submitted in writing to the Contract Administrator for consideration. Before work begins, Purchaser shall obtain approval from the State for the submitted plan.

1-2 UNFORESEEN CONDITIONS

Quantities established in this road plan are minimum acceptable values. Additional quantities required by the state due to unforeseen conditions, or Purchaser's choice of construction season or techniques will be at the Purchaser's expense. Unforeseen conditions include, but are not limited to, solid subsurface rock, subsurface springs, saturated ground, and unstable soils.

1-3 ROAD DIMENSIONS

Purchaser shall perform road work in accordance with the dimensions shown on the TYPICAL SECTION SHEET and the specifications within this road plan, unless controlled by construction stakes or design data (plan, profile, and cross-sections).

1-4 ROAD TOLERANCES

Purchaser shall perform road work within the tolerances listed below. The tolerance class for each road is listed on the TYPICAL SECTION SHEET.

Tolerance Class	<u>A</u>	<u>B</u>	<u>C</u>
Road and Subgrade Width (feet)	+1.5	+1.5	+2.0
Subgrade Elevation (feet +/-)	0.5	1.0	2.0
Centerline alignment (feet lt./rt.)	1.0	1.5	3.0

HUMDINGER 30-104375 FINALIZED DATE: JULY 20, 2023 Page 4 of 45

1-6 ORDER OF PRECEDENCE

Any conflict or inconsistency in the road plan will be resolved by giving the documents precedence in the following order:

- 1. Addenda.
- 2. Designs or Plans. On designs and plans, figured dimensions shall take precedence over scaled dimensions.
- 3. Road Plan Clauses.
- 4. Typical Section Sheet.
- 5. Standard Lists.
- 6. Standard Details.
- 7. Road Plan maps.

In case of any ambiguity or dispute over interpreting the road plan, the Contract Administrator's or designee's decision will be final.

1-8 REPAIR OR REPLACEMENT OF DAMAGED MATERIALS

Purchaser shall repair or replace all materials, roadway infrastructure, and road components damaged during road work or operation activities. The Contract Administrator will direct repairs and replacements. Repairs to structural materials must be made in accordance with the manufacturer's recommendation, and may not begin without written approval from the Contract Administrator.

1-9 DAMAGED METALLIC COATING

Any cut ends, or damaged galvanized or aluminized coating on existing or new bridge components, culverts, downspouts, and flumes must be cleaned and treated with a minimum of two coats of zinc rich paint or cold galvanizing compound.

1-15 ROAD MARKING

Purchaser shall perform road work in accordance with the state's marked location. All road work is marked as follows:

- Centerline construction stakes, orange paint and orange flagging for new construction and RP's.
- Orange painted trees or construction stakes for pre-haul maintenance and reconstruction.

1-16 CONSTRUCTION STAKES SET BY STATE

Purchaser shall perform work on the following road in accordance with the construction stakes and reference points set in the field for grade and alignment.

<u>Road</u>	<u>Stations</u>	<u>Type</u>
D-3220	0+00 to 24+77	RP's, road design

HUMDINGER 30-104375 FINALIZED DATE: JULY 20, 2023 Page 5 of 45

1-18 REFERENCE POINT DAMAGE

Purchaser shall reset reference points (RPs) that were moved or damaged at any time during construction to their original locations. Excavation and embankment may not proceed on road segments controlled by said RPs until Purchaser resets all moved or damaged RPs.

1-21 HAUL APPROVAL

Purchaser shall not use roads under this road plan for timber hauling, other than timber cut on the right-of-way, without written approval from the Contract Administrator.

1-22 WORK NOTIFICATIONS

Purchaser shall notify the Contract Administrator a minimum of 3 business days before work begins.

1-23 ROAD WORK PHASE APPROVAL

Purchaser shall obtain written approval from the Contract Administrator upon completion of each of the following phases of road work:

- Subgrade construction, compaction and drainage installation
- Rock application and compaction

1-25 ACTIVITY TIMING RESTRICTION

The specified activities are not allowed during the listed closure period unless authorized in writing by the Contract Administrator.

<u>Road</u>	<u>Activity</u>	Closure Period
All Roads	Construction, Reconstruction,	October 1 to April 30
	Pre-haul Maintenance	

1-26 OPERATING DURING CLOSURE PERIOD

If permission is granted to operate during a closure period listed in Clause 1-25 ACTIVITY TIMING RESTRICTION, Purchaser shall provide a maintenance plan to include further protection of state resources. Purchaser shall obtain written approval from the Contract Administrator for the maintenance plan, and shall put preventative measures in place before operating during the closure period. Purchaser is required to maintain all haul roads at their own expense including those listed in contract Clause C-060 DESIGNATED ROAD MAINTAINER. If other operators are using, or desire to use these designated maintainer roads, a joint operating plan must be developed. All parties shall follow this plan.

1-29 SEDIMENT RESTRICTION

Purchaser shall not allow silt-bearing runoff to enter any streams.

HUMDINGER 30-104375 FINALIZED DATE: JULY 20, 2023 Page 6 of 45

1-30 CLOSURE TO PREVENT DAMAGE

In accordance with Contract Clause G-220 STATE SUSPENDS OPERATION, the Contract Administrator will suspend road work or hauling right-of-way timber, forest products, or rock under the following conditions:

- Wheel track rutting exceeds 6 inches on pit run, jaw run, or native surface roads.
- Wheel track rutting exceeds 4 inches on crushed rock roads.
- Surface or base stability problems persist.
- When, in the opinion of the Contract Administrator excessive road damage or rutting may occur.

Operations must stop unless authority to continue working or hauling is granted in writing by the Contract Administrator. In the event that surface or base stability problems persist, Purchaser shall cease operations, or perform corrective maintenance or repairs, subject to specifications within this road plan. Before and during any suspension, Purchaser shall protect the work from damage or deterioration.

1-33 SNOW PLOWING RESTRICTION

Snowplowing will be allowed after the execution of a SNOW PLOWING AGREEMENT, which is available from the Contact Administrator upon request. If damage occurs while plowing, further permission to plow may be revoked by the Contract Administrator.

1-40 ROAD APPROACHES TO COUNTY ROADS AND STATE HIGHWAYS

Purchaser shall immediately remove any mud, dirt, rock, or other material tracked or spilled on to county roads and state highways.

If additional damage to the surface, signs, guardrails, etc. occurs then the damage will be repaired, at the Purchaser's expense, as directed by the Contract Administrator when authorized by the county or WSDOT.

SECTION 2 – MAINTENANCE

2-1 GENERAL ROAD MAINTENANCE

Purchaser shall maintain all roads used under this contract in accordance with the FOREST ACCESS ROAD MAINTENANCE SPECIFICATIONS for the entire term of this contract. Maintenance is required even during periods of inactivity.

2-2 ROAD MAINTENANCE – PURCHASER MAINTENANCE

Purchaser shall perform maintenance on roads listed in Contract Clause C-050 PURCHASER ROAD MAINTENANCE AND REPAIR in accordance with FOREST ACCESS ROAD MAINTENANCE SPECIFICATIONS.

HUMDINGER 30-104375 FINALIZED DATE: JULY 20, 2023 Page 7 of 45

2-3 ROAD MAINTENANCE – DESIGNATED MAINTAINER

Purchaser may be required to perform maintenance on roads listed in Contract Clause C-060 DESIGNATED ROAD MAINTAINER as directed by the Contract Administrator. Purchaser shall maintain roads in accordance with FOREST ACCESS ROAD MAINTENANCE SPECIFICATIONS.

2-4 PASSAGE OF LIGHT VEHICLES

Purchaser shall maintain roads in a condition that will allow the passage of light administrative vehicles.

2-5 MAINTENANCE GRADING – EXISTING ROAD

On the following roads, Purchaser shall use a grader to shape the existing surface before rock application and/or timber haul. Purchaser shall accomplish all grading using a motor grader with a minimum of 175 horsepower.

<u>Road</u>	<u>Stations</u>	<u>Requirements</u>
D-3000	0+00 to 186+00	
D-3540	0+00 to 15+50	Spot grade, desod
D-3030	0+00 to 22+00	Spot grade, desod
D-3410	0+00 to 2+20	
D-3200	0+00 to 7+80	
D-5200	0+00 to 37+10	Desod

2-6 CLEANING CULVERTS

On the following roads, Purchaser shall clean the inlets and outlets of all culverts and shall obtain written approval from the Contract Administrator before grading and rocking.

<u>Road</u>	<u>Stations</u>
D-3000	0+00 to 79+30
D-3540	0+00 to 15+50
D-3030	0+00 to 22+00
D-3400	0+00 to 15+00
D-3410	0+00 to 2+20
D-3200	0+00 to 7+80
D-5300	12+50 to 46+80
D-5320	0+00 to 3+80
D-5200	0+00 to 37+10

HUMDINGER 30-104375 FINALIZED DATE: JULY 20, 2023

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2-7 CLEANING DITCHES, HEADWALLS, AND CATCH BASINS

On the following roads, Purchaser shall clean ditches, headwalls, and catchbasins. Work must be completed before grading and rocking and must be done in accordance with the TYPICAL SECTION SHEET. Pulling ditch material across the road or mixing in with the road surface is not allowed.

<u>Road</u>	<u>Stations</u>
D-3000	0+00 to 79+30
D-3540	0+00 to 15+50
D-3030	0+00 to 22+00
D-3400	0+00 to 15+00
D-3410	0+00 to 2+20
D-3200	0+00 to 7+80
D-5300	12+50 to 46+80
D-5320	0+00 to 3+80
D-5200	0+00 to 37+10

SECTION 3 – CLEARING, GRUBBING, AND DISPOSAL

3-1 BRUSHING

On the following road, Purchaser shall cut vegetative material up to 4 inches in diameter, including limbs, as shown on the ROAD BRUSHING DETAIL. Brushing must be achieved by cutting of brush, trees, and branches. Root systems and stumps of cut vegetation may not be disturbed unless directed by the Contract Administrator. Purchaser shall remove brushing debris from the road surface, ditchlines, and culvert inlets and outlets.

<u>Road</u>	<u>Stations</u>
D-3000	0+00 to 79+30
D-3540	0+00 to 15+50
D-3030	12+30 to 13+30
D-3400	0+00 to 15+00
D-5300	12+50 to 46+80
D-5320	0+00 to 3+80
D-5200	0+00 to 37+10

3-5 CLEARING

Purchaser shall fall all vegetative material larger than 2 inches DBH or over 4 feet high between the marked right-of-way boundaries and within waste and debris areas, or if not marked in the field, between the clearing limits specified on the TYPICAL SECTION SHEET. Clearing must be completed before starting excavation and embankment.

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3-8 PROHIBITED DECKING AREAS

Purchaser shall not deck right-of-way timber in the following areas:

- Within the grubbing limits.
- Within 50 feet of any stream.
- In locations that interfere with the construction of the road prism.
- In locations that impede drainage.
- On slopes greater than 45%.
- Against standing trees, unless approved by the Contract Administrator.

3-10 GRUBBING

Purchaser shall remove all stumps between the grubbing limits specified on the TYPICAL SECTION SHEET. Purchaser shall also remove stumps with undercut roots outside the grubbing limits. Grubbing must be completed before starting excavation and embankment.

3-12 STUMP PLACEMENT

Purchaser shall place grubbed stumps outside of the grubbing limits and in compliance with all other clauses in this road plan.

3-14 STUMPS WITHIN DESIGNATED WASTE AREAS

Purchaser is not required to remove stumps within waste areas if they are cut flush with the ground.

3-20 ORGANIC DEBRIS DEFINITION

Organic debris is defined as all vegetative material not eligible for removal by Contract Clause G-010 PRODUCTS SOLD AND SALE AREA or G-011 RIGHT TO REMOVE FOREST PRODUCTS AND CONTRACT AREA, that is larger than one cubic foot in volume within the grubbing and brushing limits.

3-21 DISPOSAL COMPLETION

Purchaser shall remove organic debris from the road surface, ditch lines, and culvert inlets and outlets. Purchaser shall complete all disposal of organic debris, before subgrade compaction, the application of rock, and timber haul.

3-22 DESIGNATED WASTE AREA FOR ORGANIC DEBRIS

Waste areas for organic debris are located as listed below or within the cleared right-of-way or in natural openings as designated by the Contract Administrator.

<u>Road</u>	<u>Stations</u>	<u>Remarks</u>
D-3220	3+30, 8+50, 14+40	On right
D-3220	17+25	On left

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3-23 PROHIBITED DISPOSAL AREAS

Purchaser shall not place organic debris in the following areas:

- Within 15 feet of a cross drain culvert.
- Within 50 feet of a live stream, or wetland.
- On road subgrades, or excavation and embankment slopes.
- On slopes greater than 45%.
- Within the operational area for cable landings where debris may shift or roll.
- On locations where brush can fall into the ditch or onto the road surface.
- Against standing timber.

3-24 BURYING ORGANIC DEBRIS RESTRICTED

Purchaser shall not bury organic debris unless otherwise stated in this plan.

3-25 SCATTERING ORGANIC DEBRIS

Purchaser shall scatter organic debris outside of the grubbing limits and in natural openings. Where natural openings are unavailable or restrictive, alternate debris disposal methods are subject to the written approval of the Contract Administrator.

3-32 END HAULING ORGANIC DEBRIS

On the following roads and on slopes greater than 45%, Purchaser shall end haul or push organic debris to the designated waste areas specified in Clause 3-22 or to a waste area located by the Contract Administrator.

<u>Road</u>	<u>Stations</u>
D-3220	9+58 to 11+37

SECTION 4 – EXCAVATION

4-1 EXCAVATOR CONSTRUCTION

On the following roads, Purchaser shall use a track mounted hydraulic excavator for construction work, unless authorized in writing by the Contract Administrator.

<u>Road</u>	<u>Stations</u>
D-3220	9+58 to 11+37

4-2 PIONEERING

Pioneering may not extend past construction that will be completed during the current construction season. In addition, the following actions must be taken as pioneering progresses:

- Drainage must be provided on all uncompleted construction.
- Road pioneering operations may not undercut the final cut slope or restrict drainage.

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4-3 ROAD GRADE AND ALIGNMENT STANDARDS

Purchaser shall follow these standards for road grade and alignment, except as designed:

- Grade and alignment must have smooth continuity, without abrupt changes in direction.
- Maximum grades may not exceed 15 percent favorable and 12 percent adverse.
- Minimum curve radius is 60 feet at centerline.
- Maximum grade change for sag vertical curves is 5% in 100 feet.
- Maximum grade change for crest vertical curves is 4% in 100 feet.

4-4 SWITCHBACK STANDARDS

A switchback is defined as a curved segment of road between a beginning and end of the same curve, where the change of traffic travel direction is greater than 90 degrees. Purchaser shall follow these standards for switchbacks:

- Maximum adverse grades for switchbacks is 10% of the curve radius.
- Maximum favorable grades for switchbacks is 10%.
- Maximum transition grades entering and leaving switchbacks is a 5% grade change. Transition grades required to meet switchback grade limitations must be constructed on the tangents preceding and departing from the switchbacks.

4-5 CUT SLOPE RATIO

Purchaser shall construct excavation slopes no steeper than shown on the following table, unless construction staked or designed:

	<u>Excavation</u>	Excavation Slope
Material Type	Slope Ratio	<u>Percent</u>
Common Earth (on side slopes up to 70%)	1:1	100
Common Earth (on slopes over 70%)	34:1	133
Fractured or loose rock	½:1	200
Hardpan or solid rock	½:1	400

4-6 EMBANKMENT SLOPE RATIO

Purchaser shall construct embankment slopes no steeper than shown on the following table, unless construction staked or designed:

	<u>Embankment</u>	<u>Embankment</u>
Material Type	Slope Ratio	Slope Percent
Sandy Soils	2:1	50
Common Earth and Rounded Gravel	1½:1	67
Angular Rock	11/4:1	80

4-7 SHAPING CUT AND FILL SLOPE

Purchaser shall construct excavation and embankment slopes to a uniform line and left rough for easier revegetation.

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4-8 CURVE WIDENING

The minimum widening placed on the inside of curves is:

- 6 feet for curves of 50 to 79 feet radius.
- 4 feet for curves of 80 to 100 feet radius.

4-9 EMBANKMENT WIDENING

The minimum embankment widening is:

- 2 feet for embankment heights at centerline of 2 to 6 feet.
- 4 feet for embankment heights at centerline of greater than 6 feet.

Purchaser shall apply embankment widening equally to both sides of the road to achieve the required width.

4-12 FULL BENCH CONSTRUCTION

On the following road, and where side slopes exceed 45%, Purchaser shall use full bench construction for the entire subgrade width. Purchaser shall end haul waste material to the location specified in Clause 4-37 WASTE AREA LOCATION.

<u>Road</u>	Full Bench Location
D-3220	9+58 to 11+37

4-21 TURNOUTS

Purchaser shall construct turnouts as designated on the ROCK LIST. Locations changes are subject to written approval by the Contract Administrator. Minimum dimensions are shown on the ROCK LIST.

4-22 TURNAROUNDS

Purchaser shall construct turnarounds as designated on the ROCK LIST. Turnarounds must be no larger than 30 feet long and 30 feet wide.

4-25 DITCH CONSTRUCTION AND RECONSTRUCTION

Purchaser shall construct ditches into the subgrade as specified on the TYPICAL SECTION SHEET. Ditches must be constructed concurrently with construction of the subgrade.

4-28 DITCH DRAINAGE

Ditches must drain to cross-drain culverts or ditchouts.

4-29 DITCHOUTS

Purchaser shall construct ditchouts as needed and as directed by the Contract Administrator. Ditchouts must be constructed in a manner that diverts ditch water onto the forest floor and must have excavation backslopes no steeper than a 1:1 ratio.

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4-35 WASTE MATERIAL DEFINITION

Waste material is defined as all dirt, rock, mud, or related material that is extraneous or unsuitable for construction material. Waste material, as used in Section 4 EXCAVATION, is not organic debris.

4-36 DISPOSAL OF WASTE MATERIAL

Purchaser may sidecast waste material on side slopes up to 45% if the waste material is compacted and free of organic debris. On side slopes greater than 45%, all waste material must be end hauled or pushed to the designated embankment sites and waste areas identified in Clause 4-37 WASTE AREA LOCATION.

4-37 WASTE AREA LOCATION

Purchaser shall deposit waste material in the listed designated areas. Additional waste areas may also be identified or approved by the Contract Administrator. The amount of material allowed in a waste area is at the discretion of the Contract Administrator.

<u>Road</u>	<u>Stations</u>	<u>Remarks</u>
D-3220	3+30, 8+50, 14+40	On right
D-3220	17+25	On left

4-38 PROHIBITED WASTE DISPOSAL AREAS

Purchaser shall not deposit waste material in the following areas, except as otherwise specified in this plan:

- Within 15 feet of a cross drain culvert.
- Within 50 feet of a live stream or wetland.
- On side slopes steeper than 45%.
- In locations that interfere with the construction of the road prism.
- In locations that impede drainage.
- Against standing timber.

4-47 NATIVE MATERIAL

Native material consists of naturally occurring material that is free of organic debris, trash, and rocks greater than 4 inches in any dimension.

4-55 ROAD SHAPING

Purchaser shall shape the subgrade and surface as shown on the TYPICAL SECTION SHEET. The subgrade and surface shape must ensure runoff in an even, un-concentrated manner, and must be uniform, firm, and rut-free.

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4-56 DRY WEATHER SHAPING

On the following road(s), the Contract Administrator may require the application of water to facilitate shaping activities. The method of water application is subject to written approval by the Contract Administrator.

<u>Road</u>	<u>Stations</u>
D-3000	0+00 to 27+30; 141+50 to 171+00
D-3200	0+00 to 7+80

4-60 FILL COMPACTION

Purchaser shall compact all embankment and waste material in accordance with the COMPACTION LIST by routing equipment over the entire width of each lift. Waste material may be placed by end-dumping or sidecasting until sufficiently wide enough to support the equipment.

4-61 SUBGRADE COMPACTION

Purchaser shall compact constructed subgrades in accordance with the COMPACTION LIST by routing equipment over the entire width, except ditch. Purchaser shall obtain written approval from the Contract Administrator for subgrade compaction before rocking.

SECTION 5 – DRAINAGE

5-5 CULVERTS

Purchaser shall install culverts as part of this contract. Culverts must be installed concurrently with subgrade work and must be installed before subgrade compaction and rock application. Culvert locations and the minimum requirements for culvert length and diameter are designated on the CULVERT LIST. Culvert, downspout, and flume lengths may be adjusted to fit as-built conditions and may not terminate directly on unprotected soil. Culverts must be new material and meet the specifications in Clauses 10-17 through 10-22.

5-10 CULVERT MARKER INSTALLATION

At all new culverts, Purchaser shall provide and install culvert markers at the inlet in accordance with the CULVERT AND DRAINAGE SPECIFICATION DETAIL.

5-12 UNUSED MATERIALS STATE PROPERTY

On required roads, any materials listed on the CULVERT LIST that are not installed will become the property of the state. Purchaser shall stockpile materials as directed by the Contract Administrator.

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5-15 CULVERT INSTALLATION

Culvert installation must be in accordance with the CULVERT AND DRAINAGE SPECIFICATION DETAIL and the Corrugated Polyethylene Pipe Association's "Recommended Installation Practices for Corrugated Polyethylene Pipe and Fittings". Corrugated Polyethylene pipe must be installed in a manner consistent with the manufacturer's recommendations. Culverts shall be banded using lengths of no less than 10 feet, and no more than one length less than 16 feet. Shorter sections of banded culvert shall be installed at the inlet end.

5-17 CROSS DRAIN SKEW AND SLOPE

Cross drains, on road grades in excess of 3%, must be skewed at least 30 degrees from perpendicular to the road centerline, except where the cross drain is at the low point in the road culverts will not be skewed. Cross drain culverts must be installed at a slope steeper than the incoming ditch grade, but not less than 3% or more than 10%.

5-18 CULVERT DEPTH OF COVER

Cross drain culverts must be installed with a depth of cover of not less than 1 foot of compacted subgrade over the top of the culvert at the shallowest point. Stream crossing culverts must be installed with a depth of cover recommended by the culvert manufacturer for the type and size of the pipe.

5-20 ENERGY DISSIPATERS

Purchaser shall install energy dissipaters in accordance with the CULVERT AND DRAINAGE SPECIFICATION DETAIL at all culverts on the CULVERT LIST that specify the placement of rock. The type of energy dissipater and the amount of material and must be consistent with the specifications on the CULVERT LIST, except for temporary culverts. Placement must be by zero drop-height method only. Energy dissipater installation is subject to approval by the Contract Administrator.

5-25 CATCH BASINS

Purchaser shall construct catch basins in accordance with CULVERT AND DRAINAGE SPECIFICATION DETAIL. Minimum dimensions of catch basins are 2 feet wide and 4 feet long.

5-26 HEADWALLS FOR CROSS DRAIN CULVERTS

Purchaser shall construct headwalls in accordance with the CULVERT AND DRAINAGE SPECIFICATION DETAIL at all culverts on the CULVERT LIST that specify placement of rock, except for temporary culverts. Rock may not restrict the flow of water into culvert inlets or catch basins. Rock must be placed on shoulders, slopes, and around culvert inlets and outlets. Minimum specifications require that rock be placed at a width of one culvert diameter on each side of the culvert opening, and to a height of one culvert diameter above the top of the culvert. Rock may not restrict the flow of water into culvert inlets or catch basins.

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SECTION 6 - ROCK AND SURFACING

6-5 ROCK FROM COMMERCIAL SOURCE

Rock used in accordance with the quantities on the ROCK LIST may be obtained from any commercial source at the Purchaser's expense. Rock sources are subject to written approval by the Contract Administrator before their use. Rock source(s) must be a WSDOT certified source.

Possible Sources	<u>Location</u>
Northwest Rock, Inc.	Oakville, WA
Alderbrook Quarry	Chehalis, WA

Purchaser shall provide the Contract Administrator with laboratory LA Abrasion (T96) and Degradation (T113) test results at the Purchaser's expense at least 14 days prior to rock source approval. The Contract Administrator or representative shall be on site when the sample is collected prior to testing. The Contract Administrator or their representative may periodically sample rock from the hauling vehicle for additional testing. Rock not meeting minimum requirements listed below will not be approved. 1 ¼-INCH MINUS CRUSHED ROCK shall meet a minimum Degradation value of 15% and a maximum LA Abrasion value of 35%.

Possible Testing Facility	<u>Location</u>			
Materials Testing and Consulting	Olympia, Washington			
WSDOT State Materials Laboratory	Tumwater, Washington			

6-22 FRACTURE REQUIREMENT FOR ROCK

The following rock types shall have a minimum of 50% by visual inspection of coarse aggregate must have at least one fractured face. Coarse aggregate is the material greater than 1/4-inch in size.

6-23 ROCK GRADATION TYPES

Purchaser shall manufacture rock in accordance with the types and amounts listed in the ROCK LIST. Rock must meet the following specifications for gradation and uniform quality when placed in hauling vehicles. Purchaser shall provide a sieve analysis upon request from the Contract Administrator.

6-28 1 1/4-INCH MINUS CRUSHED ROCK

% Passing 1 ¼" square sieve
 % Passing 5/8" square sieve
 % Passing U.S. #4 sieve
 100%
 55 - 75%
 20 - 50%

Of the fraction passing the No. 4 sieve, 40% to 60% must pass the No. 10 sieve.

The portion of aggregate retained on the No. 4 sieve may not contain more than 0.2 percent organic debris and trash. All percentages are by weight.

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6-32 2 ½-INCH MINUS CRUSHED ROCK

% Passing 2 ½" square sieve
 % Passing 1 ½" square sieve
 % Passing U.S. #4 sieve
 100%
 55 - 75%
 20 - 45%

Of the fraction passing the No. 4 sieve, 40% to 60% must pass the No. 10 sieve.

The portion of aggregate retained on the No. 4 sieve may not contain more than 0.2 percent organic debris and trash. All percentages are by weight.

6-36 4-INCH MINUS CRUSHED ROCK

% Passing 4" square sieve
 % Passing 2" square sieve
 % Passing U.S. #4 sieve
 100%
 55 - 75%
 15 - 45%

The portion of aggregate retained on the No. 4 sieve may not contain more than 0.2 percent organic debris and trash. All percentages are by weight.

6-43 QUARRY SPALLS

% Passing 8" square sieve 100%

% Passing U.S. #40 sieve 5% maximum

Rock may not contain more than 5 percent vegetative debris or trash. All percentages are by weight.

6-55 ROCK APPLICATION MEASURED BY COMPACTED DEPTH

Measurement of specified rock depths, are defined as the compacted depth using the compaction methods required in this road plan. Estimated quantities specified in the ROCK LIST are loose yards. Purchaser shall apply adequate amounts of rock to meet the specified rock depths. Specified rock depths are minimum requirements and are not subject to reduction.

6-56 ROCK MEASURMENT BY TRUCK VOLUME

Measurement of energy dissipaters and landing rock is on a cubic yard truck measure basis. The Contract Administrator will measure each truck box before rock hauling. An average of such volumes for each truck will be used to tally the volume hauled. The Contract Administrator may periodically require that a load be flattened off and its volume calculated. Purchaser shall maintain load tally sheets for each truck and shall give them to the Contract Administrator on a weekly basis during rocking operations.

6-70 APPROVAL BEFORE ROCK APPLICATION

Purchaser shall obtain written approval from the Contract Administrator for subgrade construction and drainage installation before rock application.

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6-71 ROCK APPLICATION

Purchaser shall apply rock in accordance with the specifications and quantities shown on the ROCK LIST. Rock must be spread, shaped, and compacted full width concurrent with rock hauling operations. Road surfaces must be compacted in accordance with the COMPACTION LIST by routing equipment over the entire width.

6-73 ROCK FOR WIDENED PORTIONS

Purchaser shall apply rock to turnarounds, turnouts, and areas with curve widening to the same depth and specifications as the traveled way, unless otherwise specified in the ROCK LIST.

6-75 OPTIONAL ROCK EXCEPTION

On the following roads, if hauling takes place from June 1 to September 30 Purchaser may provide and place less rock than shown on the ROCK LIST, when approved in writing by the Contract Administrator.

If less rock is applied, Purchaser shall submit a written plan, for approval, describing how these roads will be constructed, used, maintained, and treated post-haul. Purchaser shall meet post haul specifications in Section 9 POST-HAUL ROAD WORK and Clause 9-22, the FOREST ACCESS ROAD MAINTENANCE SPECIFICATIONS, or other conditions of the approved plan.

<u>Road</u>	<u>Stations</u>
D-3530	0+00 to 8+02
D-3544	0+00 to 1+88
D-3410	2+20 to 7+50
D-3221	0+00 to 1+66
D-3222	0+00 to 2+25
D-5055	0+00 to 3+51

6-76 DRY WEATHER ROCK COMPACTION

On the following roads, The Contract Administrator may require the application of water to facilitate compaction of the rock surfacing. The method of water application is subject to approval by the Contract Administrator.

<u>Road</u>	<u>Stations</u>
D-3000	0+00 to 27+30; 141+50 to 171+00
D-3200	0+00 to 7+80

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SECTION 7 – STRUCTURES

7-70 GATE CLOSURE

On the following road(s), Contractor shall keep gates closed and locked except during periods of haul. All gates must be closed at termination of use.

<u>Road</u>	<u>Station</u>			
D-3000	2+00			
D-5000	71+80			

SECTION 8 – EROSION CONTROL

8-1 SEDIMENT CONTROL

Sediment control shall be accomplished using sediment traps, silt fences, settling ponds, or other methods as approved, in writing, by the Contract Administrator.

8-2 PROTECTION FOR EXPOSED SOIL

Purchaser shall provide and evenly spread a 4-inch layer of straw to all exposed soils within 50 feet of a stream or wetland. Soils must be covered before the first anticipated storm event. Soils may not sit exposed during any rain event.

8-15 REVEGETATION

On the following roads, Purchaser shall spread seed on all exposed soils resulting from road work activities using manual dispersion. Other methods of covering must be approved in writing by the Contract Administrator. Required seed not spread by the termination of this contract will become the property of the state.

<u>Road</u>	<u>Location</u>	Qty (lbs)*	<u>Type</u>
D-3530	0+00 to 8+02	16	Seed
D-3544	0+00 to 1+88	6	Seed
D-3410	2+20 to 7+70	10	Seed
D-3220	0+00 to 24+77	61	Seed
D-3221	0+00 to 1+66	5	Seed
D-3222	0+00 to 2+25	4	Seed
Waste Areas		40	Seed

^{*}Quantities are estimates only. Actual quantities may vary and are the responsibility of the Purchaser.

8-16 REVEGETATION SUPPLY

The Purchaser shall provide the seed.

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8-17 REVEGETATION TIMING

Purchaser shall revegetate after road work is completed and between March 15 and September 30. Soils may not be allowed to sit exposed for longer than one month without receiving revegetation treatment unless otherwise approved in writing by the Contract Administrator.

8-19 ASSURANCE FOR SEEDED AREA

Purchaser shall ensure the growth of a uniform and dense crop (at least 50% coverage) of 2-inch tall grass. Purchaser shall reapply the grass seed in areas that have failed to germinate or have been damaged through any cause. Restore eroded or disturbed areas, clean up and properly dispose of eroded materials, and reapply the grass seed at no addition cost to the state.

8-25 GRASS SEED

Purchaser shall evenly spread the seed mixture listed below on all exposed soil at a rate of 50 pounds per acre of exposed soil. Grass seed must meet the following specifications:

- 1. Weed seed may not exceed 0.5% by weight.
- 2. All seed species must have a minimum 90% germination rate, unless otherwise specified.
- 3. Seed must be certified.
- 4. Seed must be furnished in standard containers showing the following information:
 - a. Common name of seed
 - b. Net weight
 - c. Percent of purity
 - d. Percentage of germination
 - e. Percentage of weed seed and inert material
- 5. Seed must conform to the following mixture, unless a comparable mix is approved in writing by the Contract Administrator.

Kind and Variety of Seed in Mixture	% by Weight
Perennial Rye	35-45
Red Fescue	30-40
Highland Bent	5-15
White Clover	10-20
Inert and Other Crop	0.5

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SECTION 9 – POST-HAUL ROAD WORK

9-3 CULVERT MATERIAL REMOVED FROM STATE LAND

Culverts removed from roads become the property of the Contractor and must be removed from state land.

9-5 POST-HAUL MAINTENANCE

Contractor shall perform post-haul maintenance in accordance with the FOREST ACCESS ROAD MAINTENANCE SPECIFICATIONS.

9-10 LANDING DRAINAGE

Purchaser shall provide for drainage of the landing surface.

9-11 LANDING EMBANKMENT

Purchaser shall slope landing embankments to the original construction specifications.

SECTION 10 MATERIALS

10-17 CORRUGATED PLASTIC CULVERT

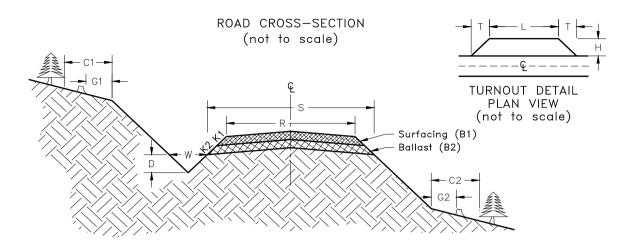
Polyethylene culverts must meet AASHTO M-294 specifications, or ASTM F-2648 specifications for recycled polyethylene. Culverts must be Type S – double walled with a corrugated exterior and smooth interior.

10-22 PLASTIC BAND

Plastic coupling and end bands must meet the AASHTO specification designated for the culvert. Only fittings supplied or recommended by the culvert manufacturer may be used. Couplings must be split coupling band. Split coupling bands must have a minimum of four corrugations, two on each side of the pipe joint.

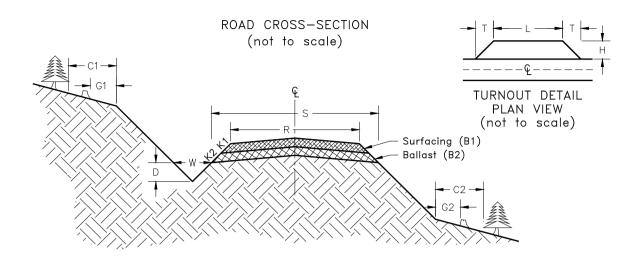
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TYPICAL SECTION SHEET



	From		Tolerance	Subgrade	Road	Ditch	Ditch	Crown	Grub	bing		
Road Number	Station	To Station	Class	Width	Width	Width	Depth	@ CL	Lin	nits	Clearin	g Limits
				ft	ft	ft	ft	in	f	t	1	t
				S	R	W	D		G1	G2	C1	C2
D-3000	0+00	186+00	Α	-	12	3	1	4	-	-	-	-
D-3530	0+00	8+02	С	14	12	3	1	4	2	2	5	5
D-3540	0+00	15+50	Α	-	12	3	1	4	-	-	-	-
D-3544	0+00	1+88	С	16	12	3	1	4	5	5	10	10
D-3030	0+00	22+00	Α	-	12	3	1	4	-	-	-	-
D-3400	0+00	15+00	Α	-	12	3	1	4	-	-	-	-
D-3410	0+00	2+20	Α	-	12	3	1	4	-	-	-	-
	2+20	7+50	С	14	12	3	1	4	2	2	5	5
D-3200	0+00	7+80	Α	-	12	3	1	4	-	-	-	-
D-3220	0+00	24+77	С	18	12	3	1	4	5	5	10	10
D-3221	0+00	1+66	С	16	12	3	1	4	5	5	10	10
D-3222	0+00	2+25	С	16	12	3	1	4	2	2	5	5
D-5300	12+50	46+80	Α	-	12	3	1	4	-	-	-	-
D-5320	0+00	3+80	Α	-	12	3	1	4	-	-	-	-
D-5200	0+00	37+10	Α	-	12	3	1	4	-	-	-	-
D-5055	0+00	3+51	С	16	12	3	1	4	2	2	5	5

ROCK LIST



4 INCH MINUS CRUSHED

					Compacted	C.Y. per	# of				Turnout	_
Road		From		Rock	Rock Depth	Station or	Stations or	C.Y.				
Number		Station	To Station	Slope	(in)	Unit	Units	Subtotal	Rock Source	Length	Width	Taper
				K2	B2				Commercial	L (ft)	H (ft)	T (ft)
D-3544	*	0+00	1+88	1 1/2:1	15	81	1.88	152				
	*	Junc	tions			15	1	15				
	*	Lanc	lings			70	1	70				
D-3220		0+00	24+77	1 1/2:1	12	70	24.77	1734				
		Turnar	ounds			34	3	102				
		Turn	outs			18	2	36		40	10	25
		Curve W	/idening					61				
		Junc	tions			12	1	12				
		Lanc	lings			70	2	140				
D-3221	*	0+00	1+66	1 1/2:1	15	81	1.66	134				
	*	Junc	tions			15	1	15				
	*	Lanc	lings			70	1	70				
D-3222	*	0+00	2+25	1 1/2:1	12	63	2.25	142				
	*	Turnar	ounds			34	1	34				
	*	Curve W	/idening					5				
	*	Junc	tions			12	1	12				
	*	Lanc	lings			70	1	70				
D-5055	*	0+00	3+51	1 1/2:1	12	63	3.51	221				
	*	Junctions				12	1	12				
	*	Land	lings			70	1	70				

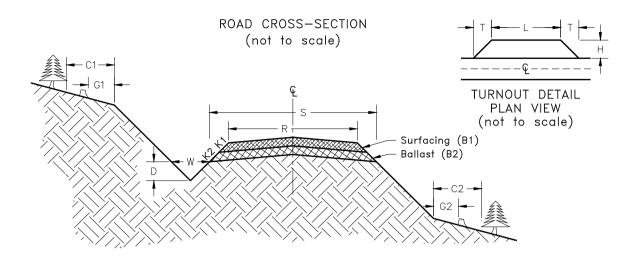
*Optional Rock in accordance with 6-75

REQUIRED 4-INCH MINUS CRUSHED: 2085 CY

OPTIONAL 4-INCH MINUS CRUSHED: 1022 CY

TOTAL 4-INCH MINUS CRUSHED: 3107 CY

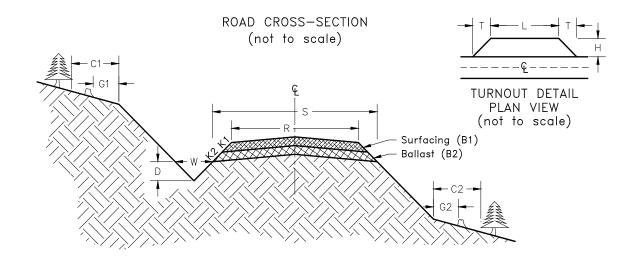
ROCK LIST



1-1/4 INCH MINUS CRUSHED

1-1/4 INCH MINUS CRUSHED											
				Compacted	C.Y. per	# of				Turnout	
	From		Rock	Rock Depth	Station or	Stations or	C.Y.				
Road Number	Station	To Station	Slope	(in)	Unit	Units	Subtotal	Rock Source	Length	Width	Taper
			K1	B1				Commercial	L (ft)	H (ft)	T (ft)
D-3000	0+00	27+30	1 1/2:1	6	30	27.30	819				
	Turr	outs			10	2	20		40	10	25
	Curve V	Videning					25				
	Spot Roc	k (27+30	to 141+	50)			250				
D-3000	141+50	171+00		4	20	29.50	590				
	Turr	outs			10	2	20		40	10	25
	Curve V	Videning					21				
D-3030	Spot Roc	k (12+30	to 13+3	0; 17+50)			30				
D-3200	0+00	7+80	1 1/2:1	6	30	7.80	234				
	Curve V	Videning					7				
	Junctions				12	1	12				
	Culvert E	Backfill (7-	⊦ 70)				20				
D-3220	0+00	24+77	1 1/2:1	6	30	24.77	743				
	Turnarounds			16	3	48					
	Turnouts				10	2	20		40	10	25
	Curve Widening						22				
	Junc	tions			6	1	6				

REQUIRED 1-1/4 INCH MINUS CRUSHED: 2887 CY



2-1/2 INCH MINUS CRUSHED

		From	То	Rock	Compacted Rock Depth	C.Y. per Station or	# of Stations or	C.Y.			Turnout	
Road Number		Station	Station	Slope	(in)	Unit	Units		Rock Source	Length	Width	Taper
				K2	B2				Commercial	L (ft)	H (ft)	T (ft)
D-3530	*	0+00	8+02		6	30	8.02	241				
	*	Turn	outs			9	1	9		40	10	25
	*	Curve W	/idening					8				
	*	Junct	tions			6	1	6				
	*	Land	lings			50	1	50				
D-3540		Spot	Rock					40				
D-3410		0+00	2+20	1 1/2:1	4	20	2.20	44				
		Junct	tions			4	1	4				
D-3410	*	2+20	7+50	1 1/2:1	8	41	5.30	217				
	*	Turn	outs			12	1	12		40	10	25
	*	Curve W	/idening					7				
	*	Land	lings			50	1	50				

^{*}Optional Rock in accordance with 6-75

REQUIRED L 2-1/2 INCH MINUS CRUSHED: 88 CY

OPTIONAL 2-1/2 INCH MINUS CRUSHED: 600 CY

TOTAL 2-1/2 INCH MINUS CRUSHED: 688 CY

QUARRY SPALLS

Road

Number	CY	Rock Source
		Commercial
*D-3530	1	
*D-3544	1	
D-3200	1	
D-3220	3	
*D-5055	1	

REQUIRED QUARRY SPALLS: 4

OPTIONAL QUARRY SPALLS: 3

TOTAL QUARRY SPALLS: 7

CULVERT LIST

Road Number	Location	<u>Culvert</u>		Armoring (C.Y.)		<u>Backfill</u>	Bedding	<u>Inlet</u>	Remarks		
Rodd Hamber	Location	Dia (In)	Length	<u>Type</u>	<u>Inlet</u>	<u>Outlet</u>	Type	<u>Material</u>	<u>Material</u>	<u>Marker</u>	<u>itematko</u>
D-3530	3+76	18	30	PD	0.5	0.5	QS	NT	NT	Υ	
D-3544	0+20	18	30	PD	0.5	0.5	QS	NT	NT	Υ	
D-3200	7+70	18	30	PD	0.5	0.5	QS	CR	NT	Υ	
D-3220	3+22	18	30	PD	0.5	0.5	QS	NT	NT	Υ	
	4+82	18	30	PD	0.5	0.5	QS	NT	NT	Υ	May not be needed.
	7+80	18	30	PD	0.5	0.5	QS	NT	NT	Υ	
D-5055	1+50	18	30	PD	0.5	0.5	QS	NT	NT	Υ	

Key:

NT - Native (bank run)

CR - 1 1/4 Inch Minus Crushed

QS - Quarry Spalls

PD - Polyethylene Pipe Double Wall

PSDS - Polyethylene Downspout Single Wall

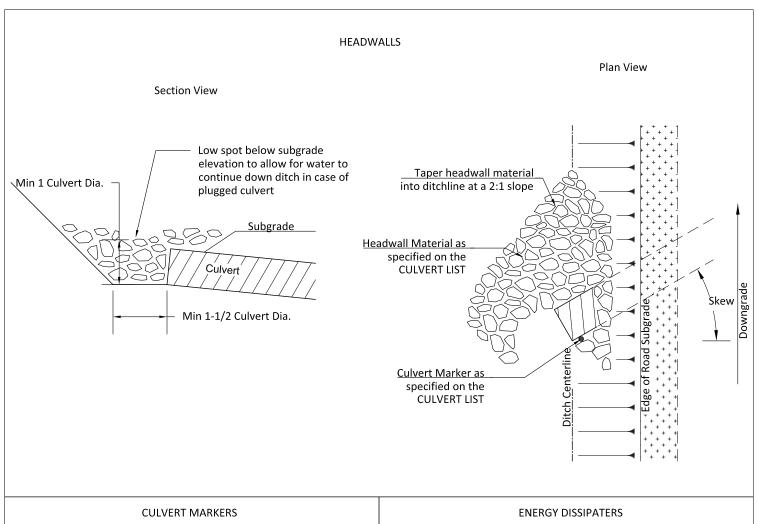
COMPACTION LIST

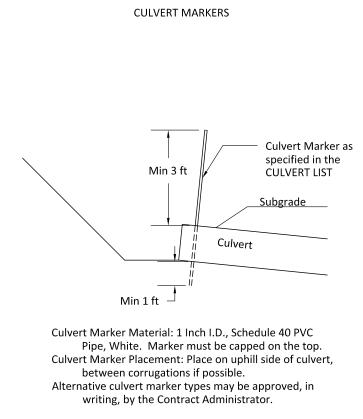
		Max Depth			Minimum
		Per Lift		Equipment	Number of
Road	Type	(inches)	Equipment Type	Weight (lbs)	Passes
			Vibratory		
All Roads	Subgrade	12	Smooth Drum	14,000	4
			Vibratory		
All Roads	Fill	18	Smooth Drum	14,000	4
All Roads	Waste Area	24	Excavation	28,000	-
	Pre-haul		Vibratory		
All Roads	Surface	6	Smooth Drum	14,000	5
			Vibratory		
All Roads	Rock	12	Smooth Drum	14,000	3

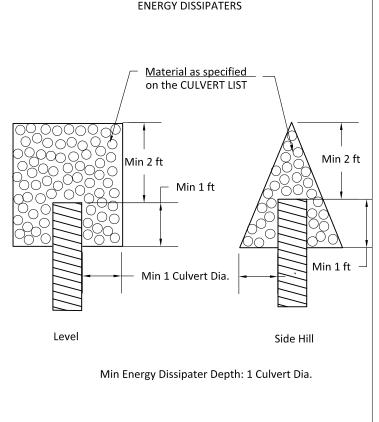
CULVERT AND DRAINAGE SPECIFICATION DETAIL PAGE 1 OF 2

INSTALLATION REQUIREMENTS: **CROSS SECTION** 1. Proper preparation of foundation and placement of any required bedding material shall precede the installation of all culverts. This includes necessary leveling of the native trench bottom and compaction of Backfill Material required bedding material to form a uniform, dense, unyielding base. as specified on The pipe must be uniformly supported along the barrel. the CULVERT LIST Backfill material shall be compacted under the culvert haunches, around the sides, and above the culvert in accordance with the COMPACTION LIST. **Bedding Material** as specified on ALL DRAWINGS ARE NOT TO SCALE Min 6 in the CULVERT LIST **CULVERT PROFILE (TYPICAL)** Normal Backslope Minimum height of cover as specified in the Road Plan Backfill Material as specified Additional backslope Subgrade on the CULVERT LIST cut to allow for catch basin **Energy Dissipater** as specified on the Lower ditchline to **ROCK LIST** Catch Basin accommodate diameter of Min 1.5 Culvert Dia. Stable Ground culvert Bedding Material as specified on the CULVERT LIST **CULVERT WITH DOWNSPOUT OPTION 1** Min 5 ft Double walled Single walled polyethylene culvert Coupling polyethylene (Buried) downspout **CULVERT WITH DOWNSPOUT OPTION 2 Turner Elbow** (See Detail) **SUPPORT STAKES TURNER ELBOW** Max 10 ft **Culvert Diameter** Min 1 culvert dia. Culvert Min 1 ft **Support Stakes** (See Detail) Downspour Stake Material: T-post with rust protection coating. Bolted with $\frac{5}{8}$ " galvanized Connections: Bolt support stakes to the culvert bolts and washers (both with $\frac{5}{8}$ " u-bolts, with washers on both sides) the inside and outside of the culvert. Alternative staking methods may be approved, Downspout must be 6 inches larger in in writing, by the Contract Administrator. diameter than the culvert.

CULVERT AND DRAINAGE SPECIFICATION DETAIL PAGE 2 OF 2







FOREST ACCESS ROAD MAINTENANCE SPECIFICATIONS

Page 1 of 2

Cuts and Fills

- Maintain slope lines to a stable gradient compatible with the cut slope/fill slope ratios. Remove slides from ditches and the roadway.
- Repair fill-failures, in accordance with Clause 4-6 EMBANKMENT SLOPE RATIO, with selected material or material approved by the Contract Administrator. Remove overhanging material from the top of cut slopes.
- Waste material from slides or other sources shall be placed and compacted in stable locations identified in the road plan or approved by the Contract Administrator, so that sediment will not deliver to any streams or wetlands.
- Slide material and debris shall not be mixed into the road surface materials, unless approved by the Contract Administrator.

Surface

- Grade the road surface, turnouts, and shoulders to the original shape on the TYPICAL SECTION SHEET to provide a smooth, rut-free traveled surface and maintain surface water runoff in an even, unconcentrated manner.
- Blading shall not undercut the backslope or cut into geotextile fabric on the road.
- If required by the Contract Administrator, water shall be applied as necessary to control dust and retain fine surface rock.
- Surface material shall not be bladed off the roadway. Replace surface material when lost or worn away, or as directed by the Contract Administrator.
- Remove shoulder berms, created by grading, to facilitate drainage, except as marked or directed by the Contract Administrator.
- For roads with geotextile fabric: spread surface aggregate to fill in soft spots and wheel ruts (barrel spread) to prevent damage to the geotextile fabric.

Drainage

- Prevent silt bearing road surface and ditch runoff from delivering sediment to any streams or wetlands.
- Maintain rolling dips and drivable waterbars as needed to keep them functioning as intended.
- Maintain headwalls to the road shoulder level with material that will resist erosion.
- Maintain energy dissipaters at culvert outlets with non-erodible material or rock.
- Keep ditches, culverts, and other drainage structures clear of obstructions and functioning as intended.
- Inspect and clean culverts at least monthly, with additional inspections during storms and periods of high runoff. This shall be done even during periods of inactivity.

HUMDINGER 30-104375 FINALIZED DATE: JULY 20, 2023 Page 31 of 45

FOREST ACCESS ROAD MAINTENANCE SPECIFICATIONS

Page 2 of 2

Preventative Maintenance

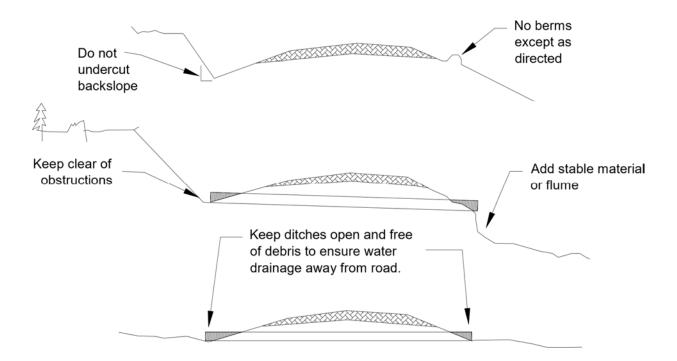
 Perform preventative maintenance work to safeguard against storm damage, such as blading to ensure correct runoff, ditch and culvert cleaning, and waterbar maintenance.

Termination of Use or End of Season

At the conclusion of logging operations, ensure all conditions of these specifications have been met.

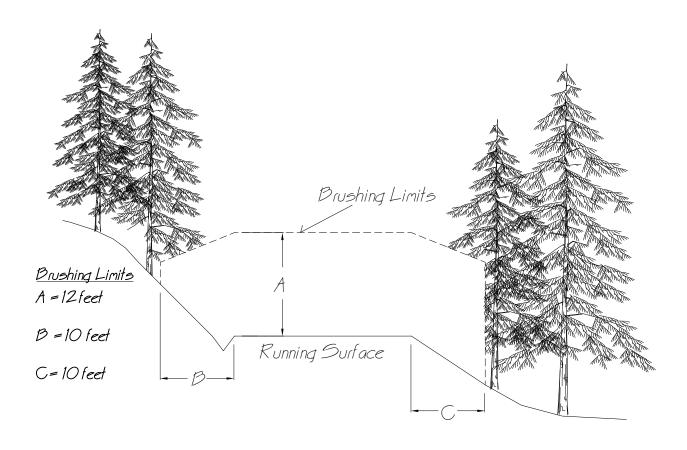
Debris

■ Remove fallen timber, limbs, and stumps from the slopes, roadway, ditchlines, and culvert inlets.



30-104375 FINALIZED DATE: JULY 20, 2023

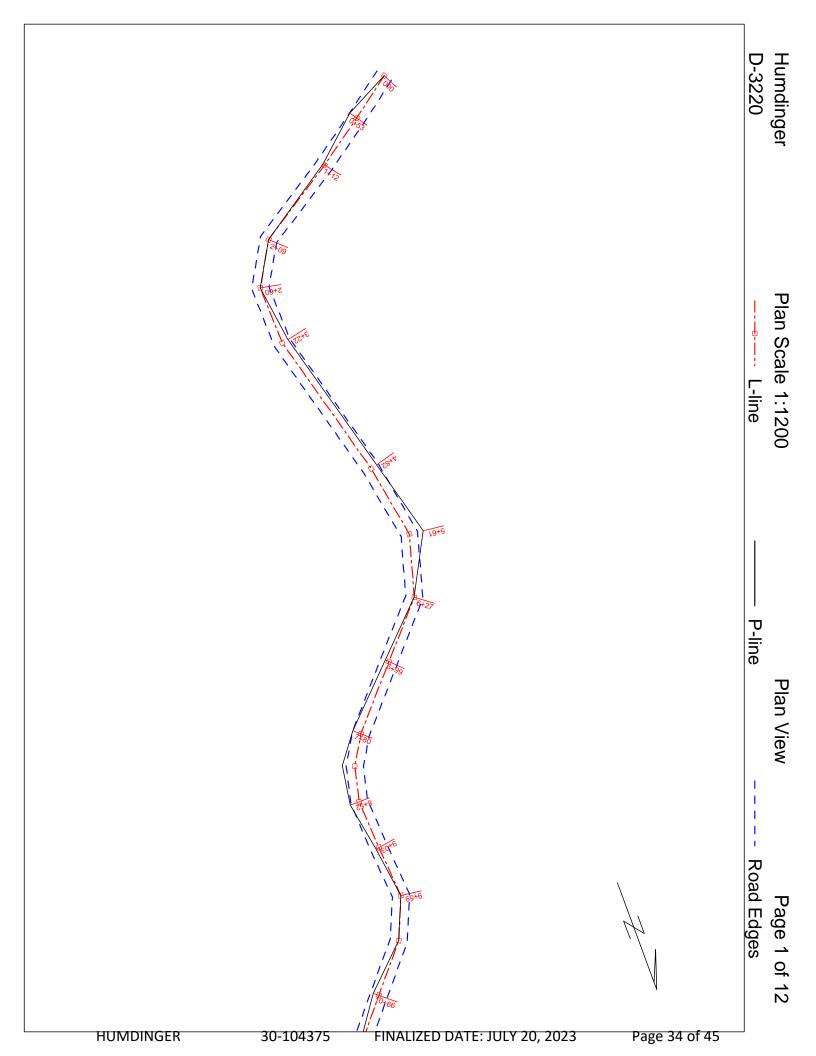
ROADSIDE BRUSHING DETAIL

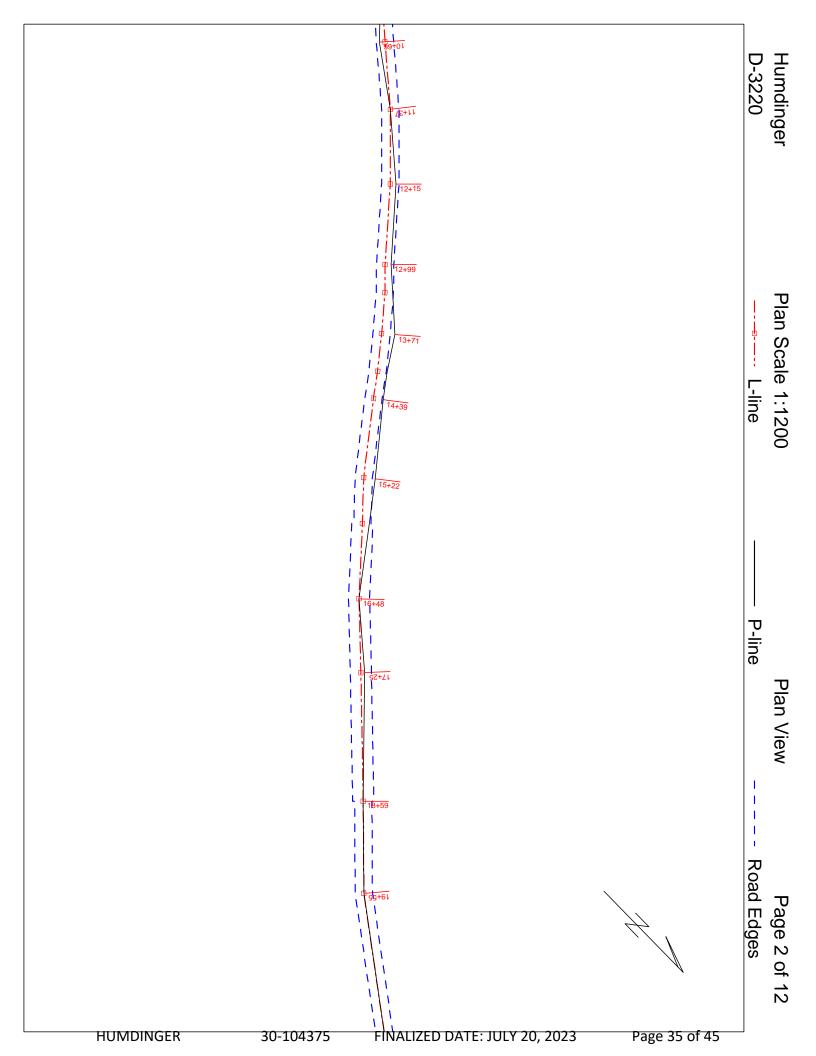


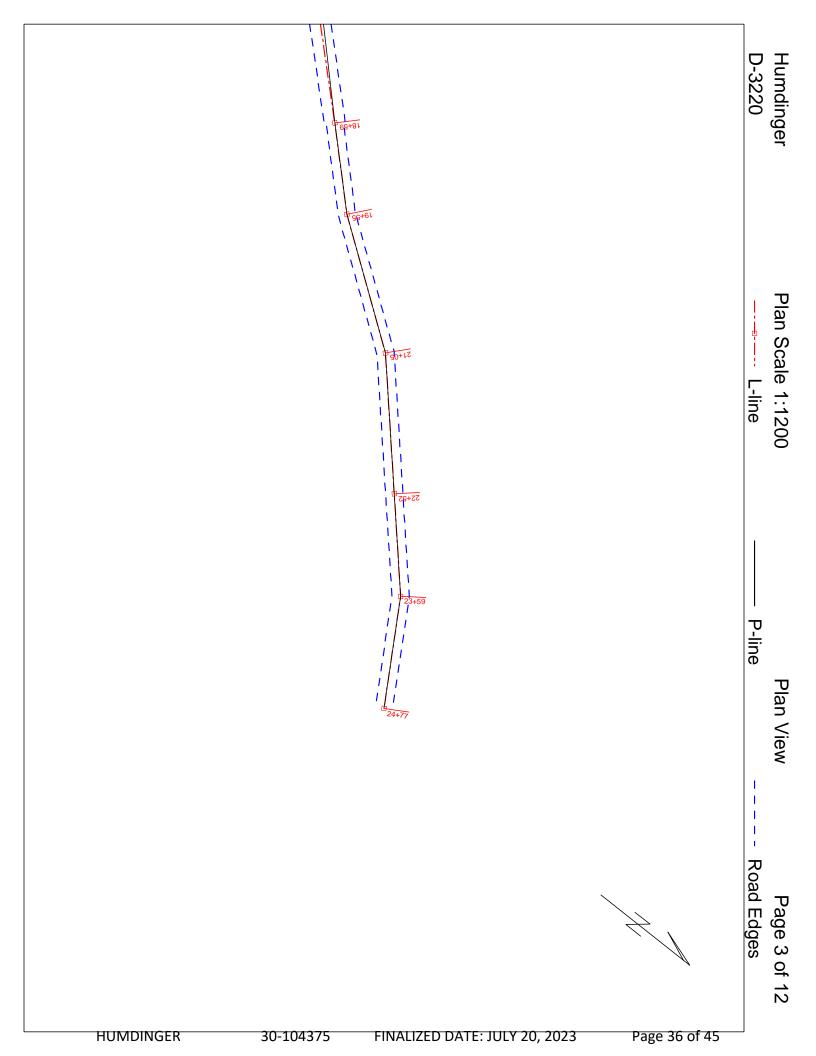
GENERAL NOTES

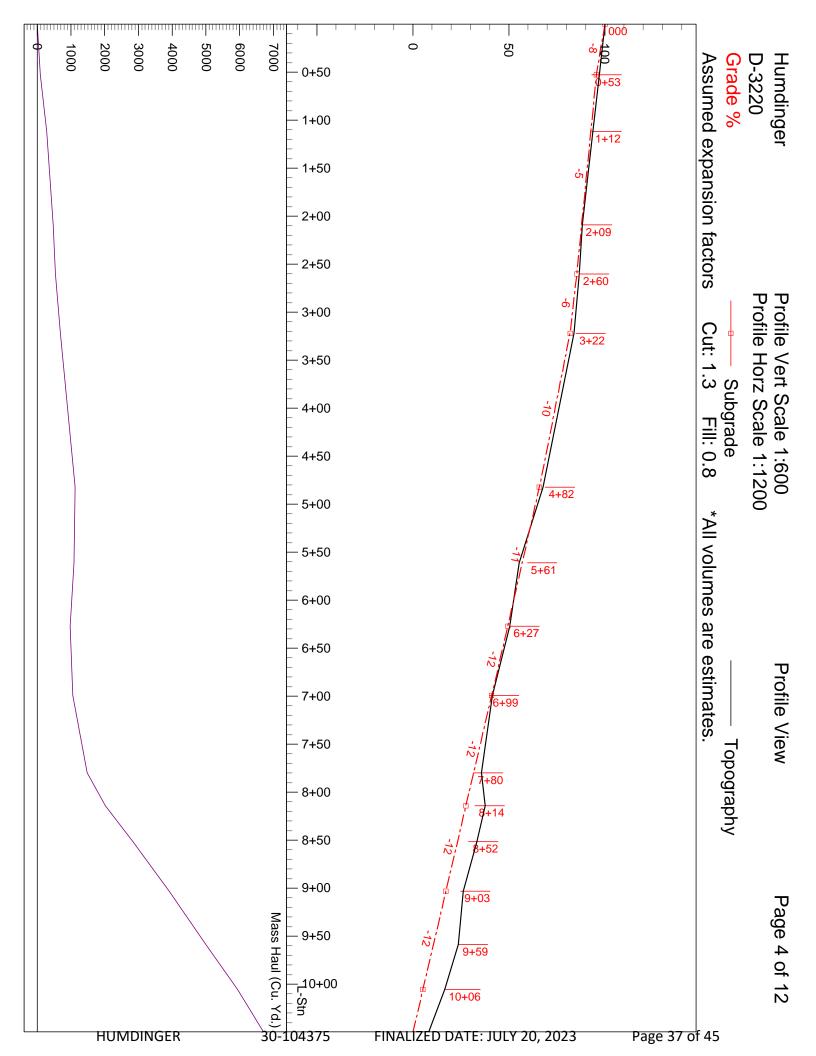
- 1) Vegetative material, including limbs, up to 4 inches in diameter shall be cut within the brushing limits shown on the drawing above. This includes vegetative material growing on the running surface.
- 2) Vegetative material shall be cut as near flush with the ground as possible, but shall not extend more than 6 inches above the ground.
- 3) Brushing Limit C may be increased on the inside of curves to improve sight distance if approved by the Contract Administrator

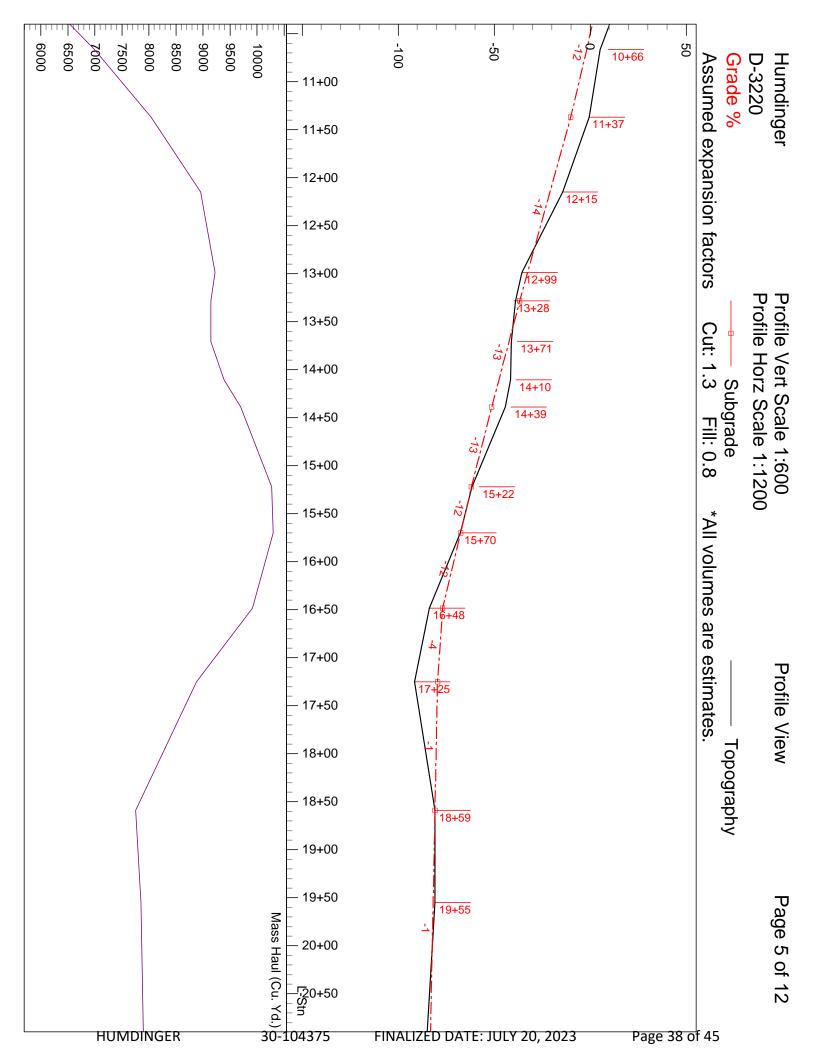
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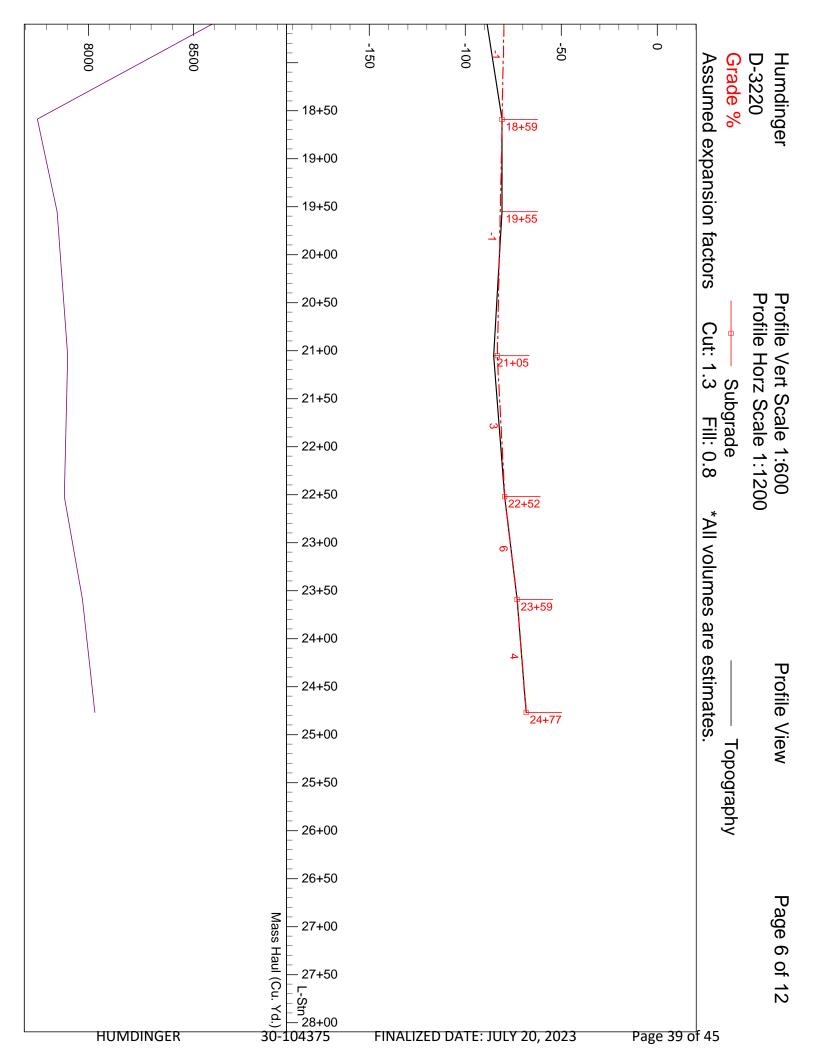


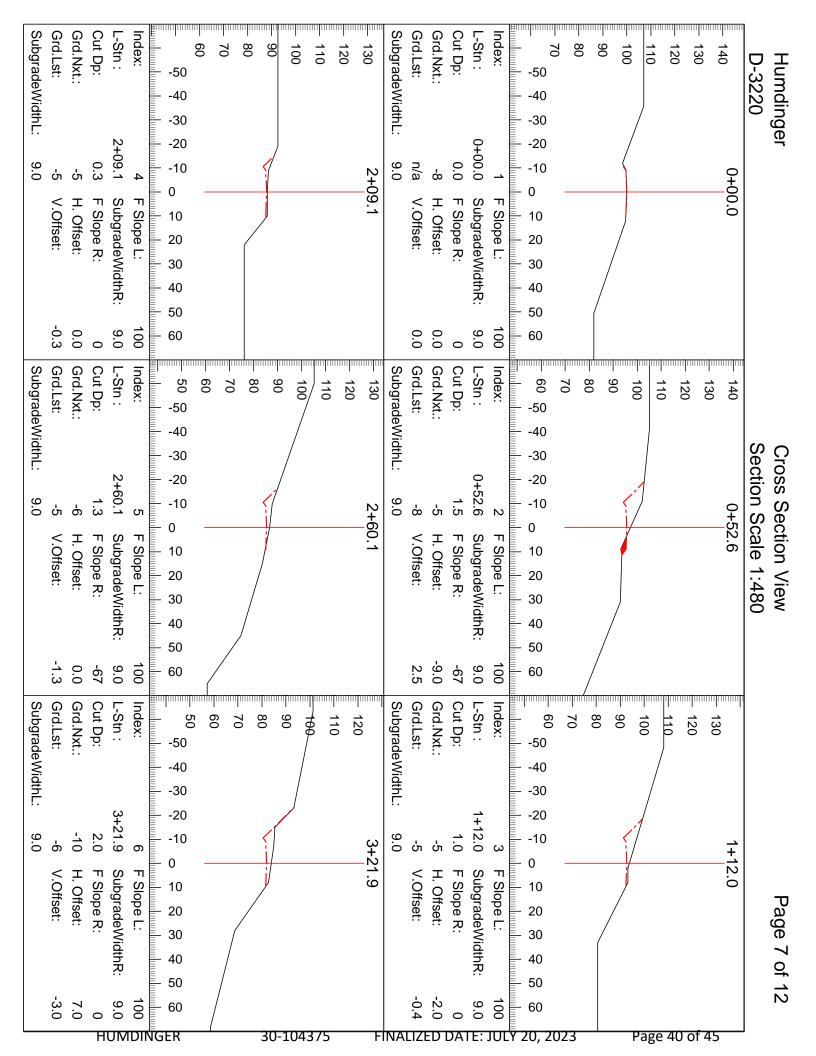


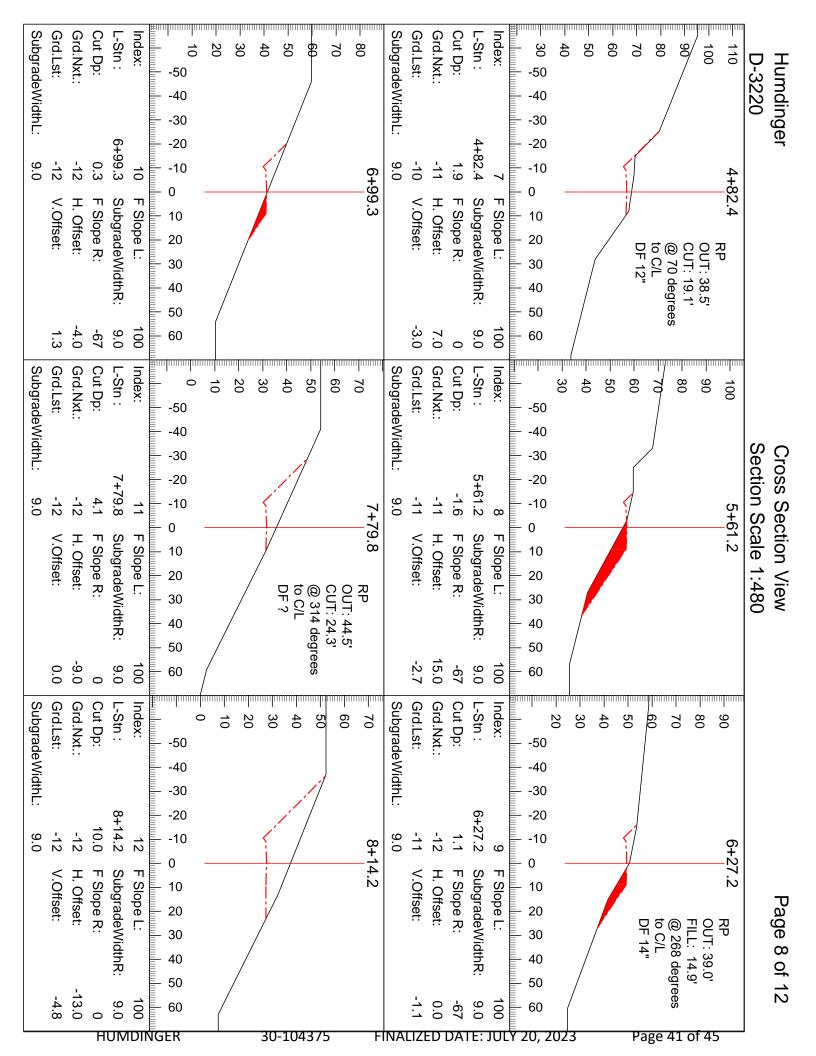


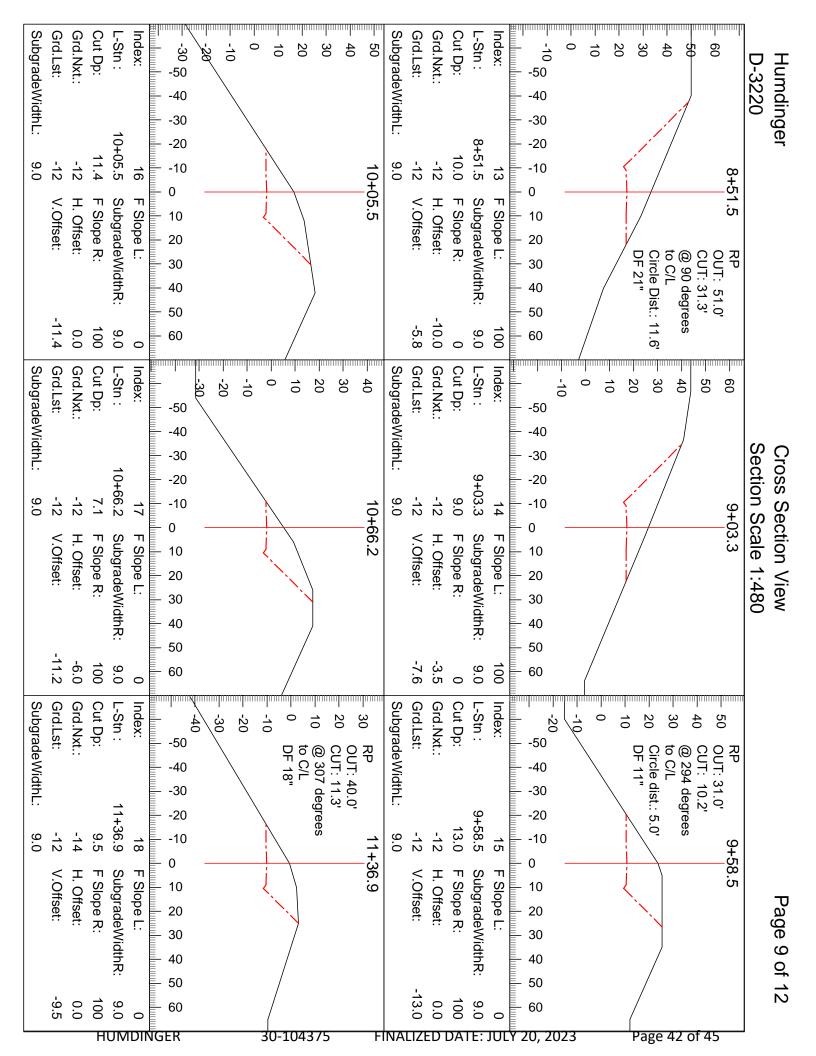


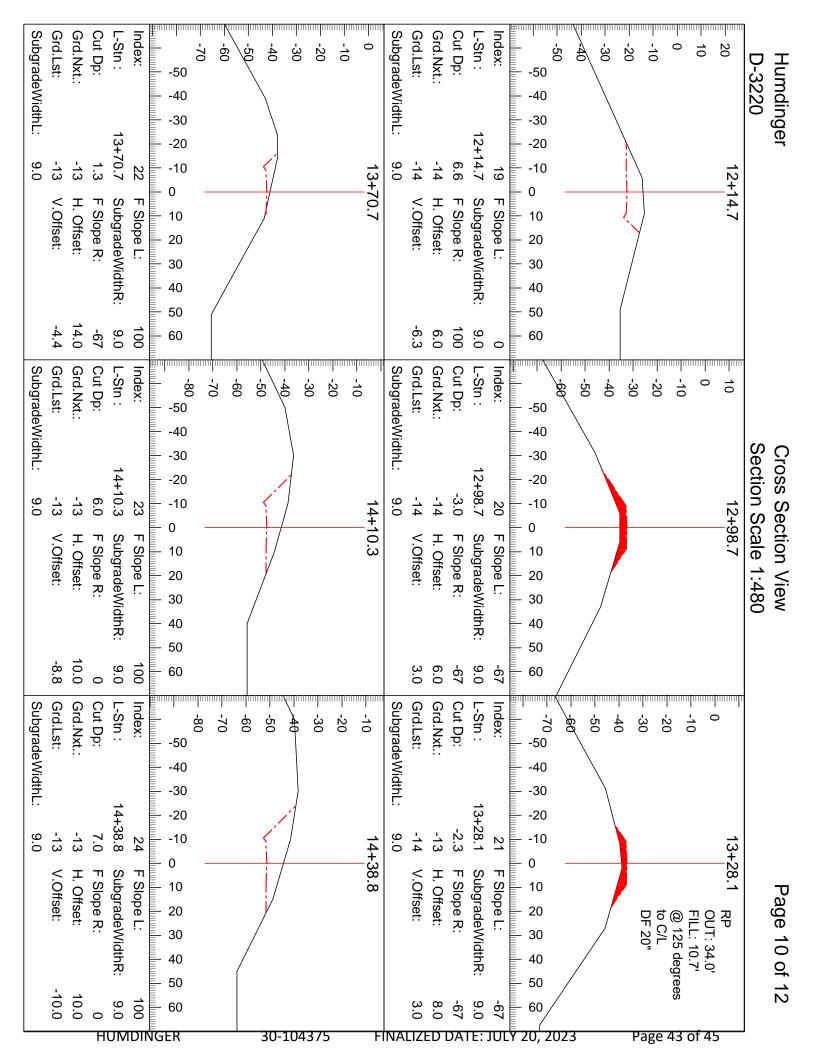


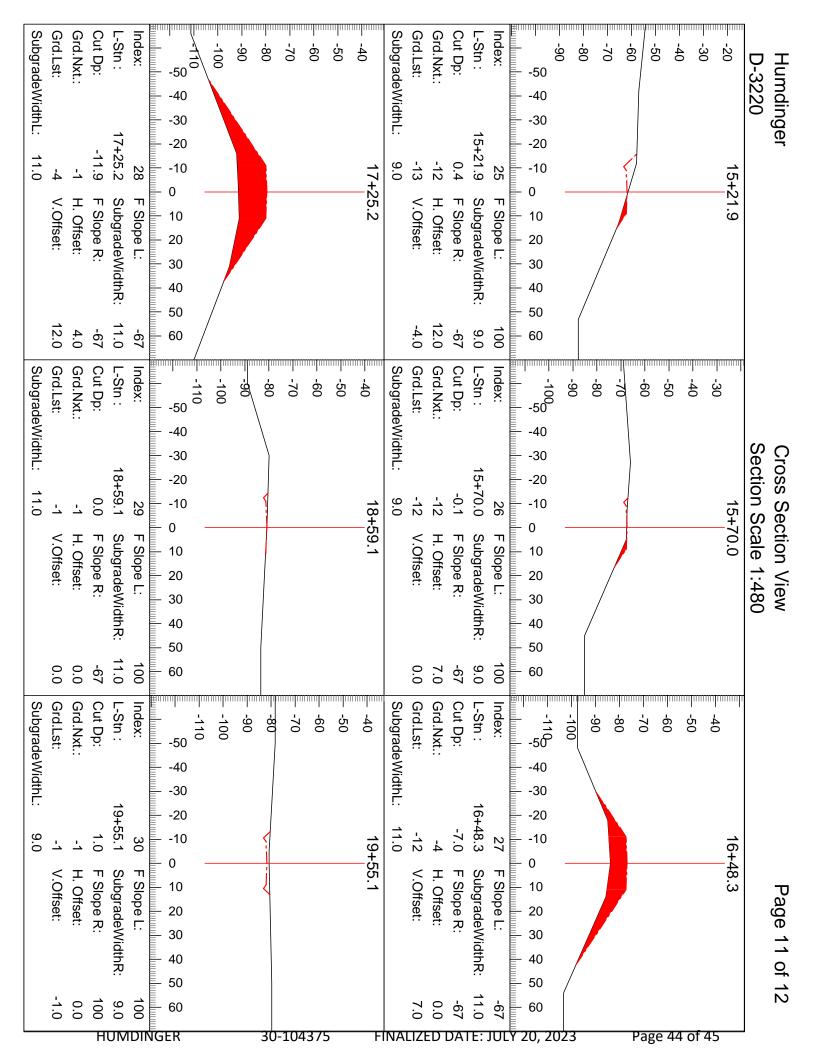


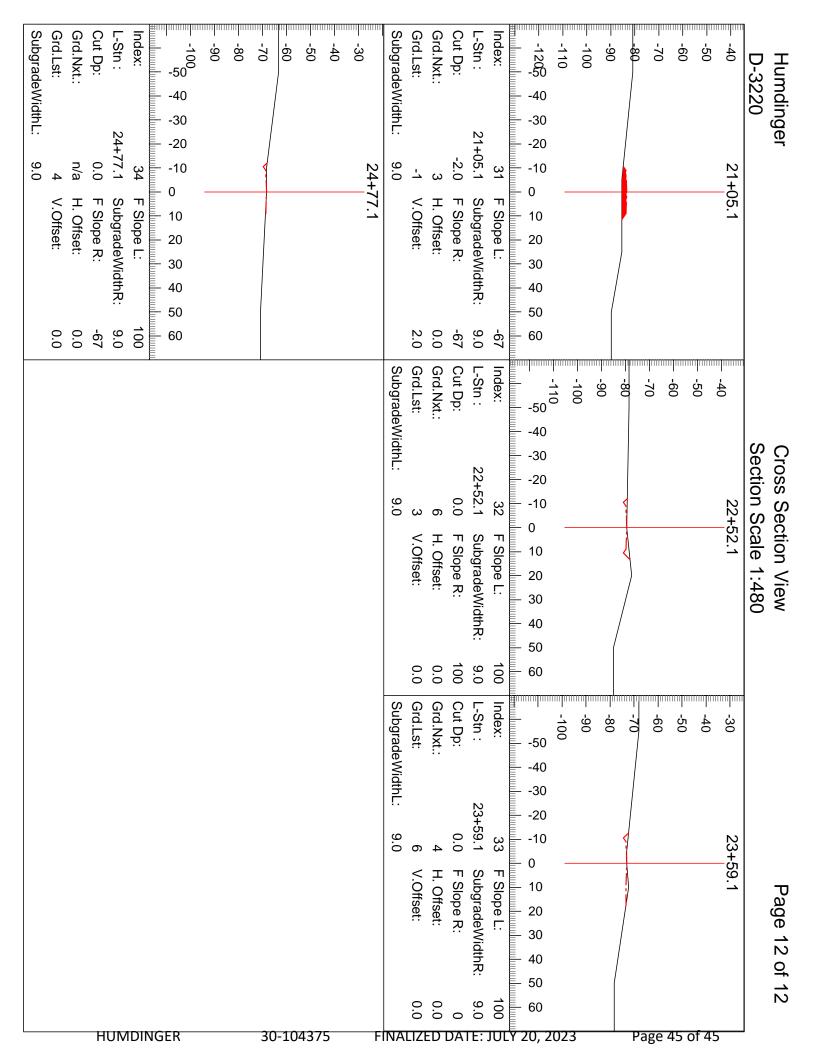












SUMMARY - Road Development Costs

REGION: Pacific Cascade

DISTRICT: Lewis

SALE/PROJECT NAME: Humdinger AGREEMENT #: 30-104375

ROAD NUMBERS: Optional: D-3530, D-3544, D-3410 (2+20 to 7+50), D-3221, D-3222, D-5055

Required: D-3000, D-3540, D-3030, D-3400, D-3410 (0+00 to 2+20), D-3200,

D-3220, D-5300, D-5320, D-5200

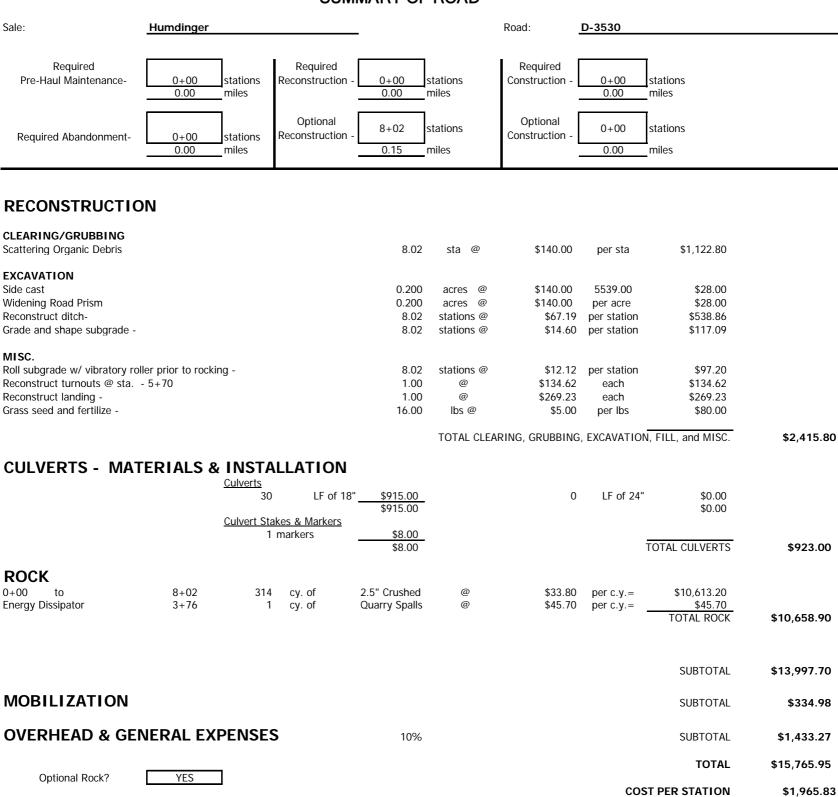
ROAD STANDARD:		Construction	Reconstruction	Maintenance
NUMBER OF STATIONS:		22.70	24.69	323.70
CLEARING & GRUBBING, EXCAVATION AND FILL, MISC.:		\$34,804.82	\$10,206.65	\$24,182.00
ROAD ROCK:	Optional: Required: Total:	\$15,691.35 \$83,575.72 \$99,267.07	\$30,897.02 \$34,204.10 \$65,101.12	\$0.00 \$78,898.58 \$78,898.58
STOCKPILE:		-	-	\$0.00
CULVERTS AND FLUMES	:	\$2,769.09	\$2,768.91	\$923.00
STRUCTURES:		-	-	-
MOBILIZATION:		\$4,826.09	\$1,415.27	\$3,353.12
TOTAL COSTS:		\$141,667.07	\$79,491.95	\$107,356.70
COST PER STATION:		\$6,241	\$3,220	\$332
ROAD DEACTIVATION & ABANDONMENT COSTS:		\$0.00	\$0.00	\$0
	10% OVERH TOTAL (All F TOTAL (Min SALE VOLU TOTAL \$/ME	AL EXPENSE =	\$32,851.57 \$361,367.29 \$314,778.92 5,539 \$65.24	

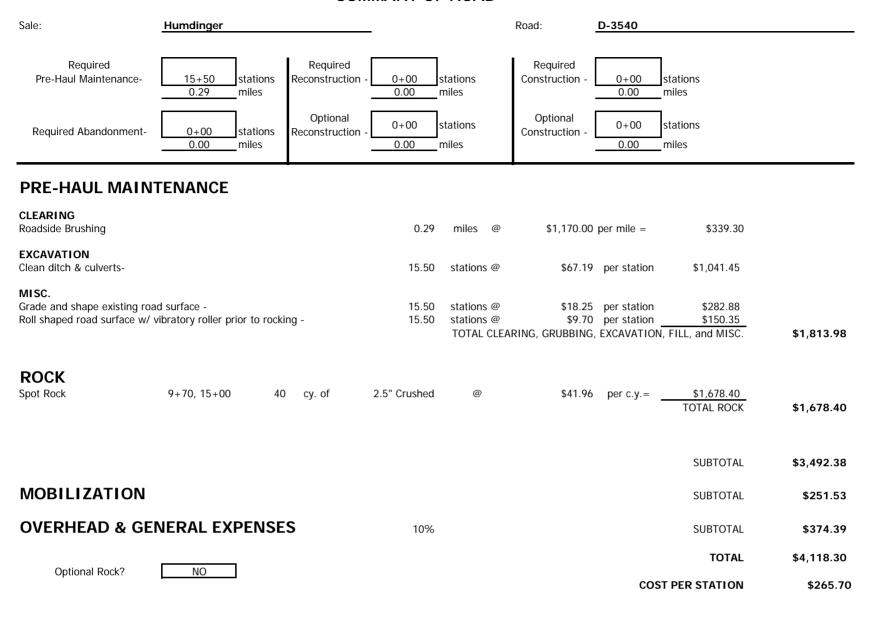
TOTAL \$/MBF (Minus Optional Rock) =

\$56.83

Profit and Risk costs are accounted on an individual basis.

Sale:	Humdinger				Road:	D-3000	
Required Pre-Haul Maintenance- Required Abandonment-	186+00 stations 3.52 miles 0+00 stations 0.00 miles	Require Reconstruct Option Reconstruc	0+00 stall 0+00 stall 0+00 stall 0+00 stall stall 0+00 stall 0+00 stall	stations miles stations miles	Required Construction - Optional Construction -	0+00 stations 0.00 miles 0+00 stations 0.00 miles	
PRE-HAUL MAIN	TENANCE						
CLEARING Roadside Brushing (0+00 to 7	9+30)		1.50	miles @	\$1,560.00	per mile = \$2,340.0	00
EXCAVATION Clean ditch & culverts (0+00 to 1)	o 79+30)-		79.30	stations @	\$67.19	per station \$5,328.1	7
MISC. Grade and shape existing road Roll shaped road surface w/ v		ing -	186.00 186.00	stations @ stations @	\$18.25 \$9.70		
				TOTAL CLEA	RING, GRUBBING	S, EXCAVATION, FILL, and MIS	C. \$12,866.87
ROCK 0+00 to Spot Rock 141+50 to	27+30 See Rock List 171+00	864 cy. of 250 cy. of 631 cy. of	1.25" Crushec 1.25" Crushec 1.25" Crushec	@ @ @	\$35.59 \$36.59 \$37.65	per c.y.= \$9,147.5	0 5
						SUBTOTA	AL \$76,521.28
MOBILIZATION						SUBTOTA	AL \$1,784.14
OVERHEAD & GEI	NERAL EXPENSE	S	10%			SUBTOTA	AL \$7,830.54
						тот	AL \$86,135.96
Optional Rock?	NO					COST PER STATIO	N \$463.10

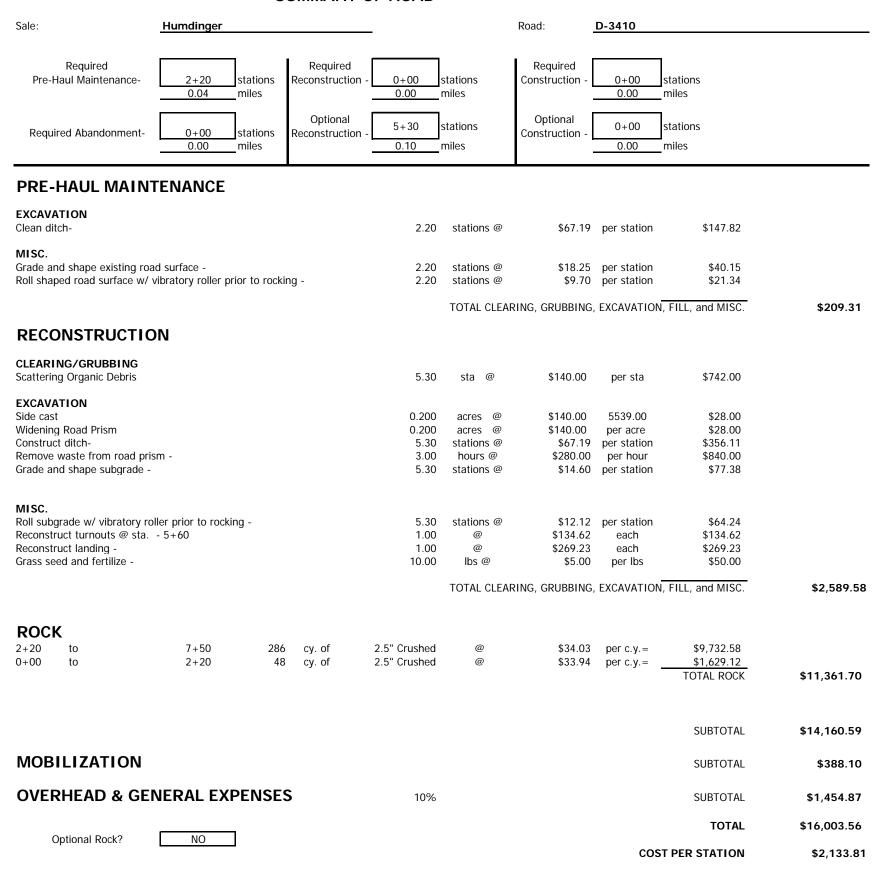


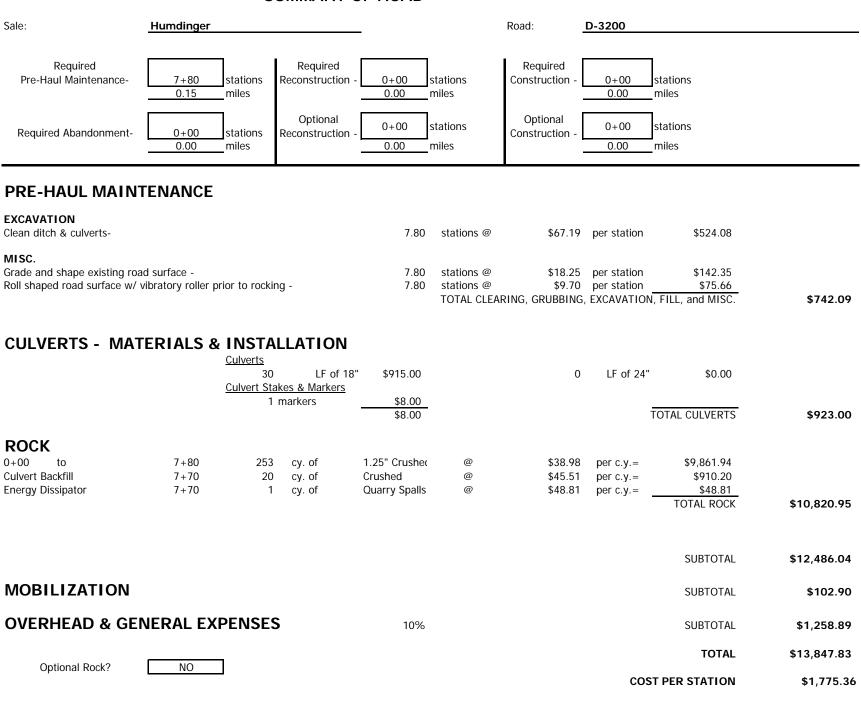


COMMINICATION TO THE PROPERTY OF THE PROPERTY									
Sale:	Humdinger			_		Road:	D-3544		
Required Pre-Haul Maintenance-	0+00 0.00	stations miles	Required Reconstruction	0.00	stations miles	Required Construction -	0+00 0.00	stations miles	
Required Abandonment-	0+00 0.00	stations miles	Reconstruction	-	stations miles	Construction -	1+88 0.04	stations miles	
CONSTRUCTION									
CLEARING/GRUBBING Scattering Organic Debris				1.88	sta @	\$280.00	per sta	\$526.40	
EXCAVATION Road Construction Earthwork Grade and shape subgrade -				1.88 1.88	sta. @ stations @	\$152.17 \$14.60	per sta. = per station	\$286.08 \$27.45	
MISC. Roll subgrade w/ vibratory ro Construct landing - 1+88 Grass seed and fertilize -	oller prior to rocl	king -		1.88 1.00 6.00	stations @ @ Ibs @	\$12.12 \$538.46 \$5.00	per station each per lbs	\$22.79 \$538.46 \$30.00	
					TOTAL CLEA	RING, GRUBBING	, excavation	N, FILL, and MISC.	\$1,431.18
CULVERTS - MA	TERIALS &	& INSTA	ALLATION						
		30		" <u>\$915.00</u> \$915.00		0	LF of 24"	\$0.00 \$0.00	
			<u>akes & Markers</u> markers	\$8.00 \$8.00				TOTAL CULVERTS	\$923.00
ROCK 0+00 to Energy Dissipator	1+88 0+20	237 1	,	Ballast Quarry Spalls	@ @	\$32.97 \$46.02	per c.y.= per c.y.=	\$7,813.89 \$46.02 TOTAL ROCK	\$7,859.91
								SUBTOTAL	\$10,214.09
MOBILIZATION								SUBTOTAL	198.4497654
OVERHEAD & GE	NERAL EX	(PENSE	S	10%				SUBTOTAL	\$1,041.25
Optional Rock?	YES	7						TOTAL	\$11,453.79
Optional Nock:	ILS						cos	ST PER STATION	\$6,092.44

Sale:	Humdinger		_		Road:	D-3030		
Required Pre-Haul Maintenance- Required Abandonment-	0.42 miles	Required Reconstruction - Optional Reconstruction -	0.00 r	stations miles stations miles	Required Construction - Optional Construction -	0+00 0+00 0.00	stations miles stations miles	
PRE-HAUL MAIN	TENANCE							
CLEARING Roadside Brushing			0.02	miles @	\$1,560.00	per mile =	\$31.20	
EXCAVATION Clean ditch & culverts (remo	ve debris) -		22.00	stations @	\$50.39	per station	\$1,108.58	
				TOTAL CLEAR	RING, GRUBBING	, excavation	N, FILL, and MISC.	\$1,139.78
ROCK Spot Rock	30 to 13+30, 17 30	cy. of	1.25" Crushed	@	\$37.19	per c.y.=	\$1,115.70 TOTAL ROCK	\$1,115.70
							SUBTOTAL	\$2,255.48
MOBILIZATION							SUBTOTAL	\$158.04
OVERHEAD & GE	NERAL EXPENSES	S	10%				SUBTOTAL	\$241.35
Optional Rock?	NO					cos	TOTAL ST PER STATION	\$2,654.87 \$120.68

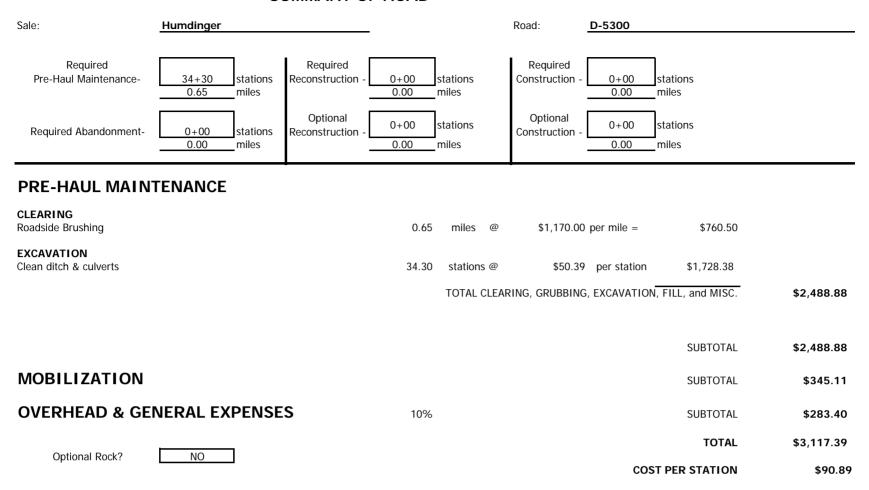
Sale:	Humdinger		Road: D-3400	
Required Pre-Haul Maintenance- Required Abandonment-	15+00 stations miles 0+00 stations on the stations of the sta	ion - 0+00 stations 0.00 miles	Required Construction - $0+00$ stations miles Optional Construction - $0+00$ stations $0+00$ stations Omiles	
PRE-HAUL MAIN	TENANCE		•	
CLEARING Roadside Brushing		0.28 miles @	\$1,170.00 per mile = \$327.60	
EXCAVATION Clean ditch & culverts-		15.00 stations @	\$50.39 per station \$755.85	
		TOTAL CLEAR	RING, GRUBBING, EXCAVATION, FILL, and MISC.	\$1,083.45
			SUBTOTAL	\$1,083.45
MOBILIZATON			SUBTOTAL	\$150.23
OVERHEAD & GE	NERAL EXPENSES	10%	SUBTOTAL	\$123.37
Ontional Books	I no I		TOTAL	\$1,357.05
Optional Rock?	NO		COST PER STATION	\$90.47

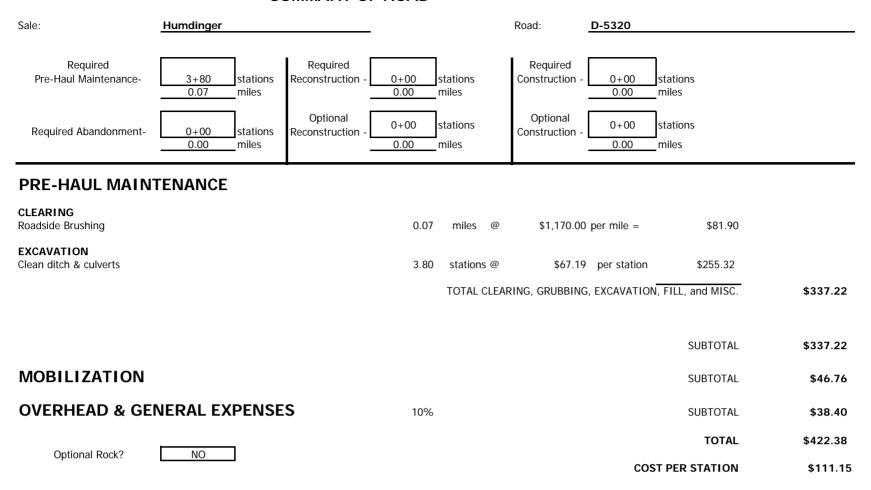




Sale:	Humdinger			_		Road:	D-3220		
Required Pre-Haul Maintenance-	0+00 sta 0.00 mil		Required econstruction -	5+61	stations miles	Required Construction -	19+16 0.36	stations miles	
Required Abandonment-	0+00 sta 0.00 mil		Optional econstruction -		stations miles	Optional Construction -	0+00 0.00	stations miles	
RECONSTRUCTION	ON								
CLEARING/GRUBBING Scattering Organic Debris Construct waste areas -				5.61 4.00	sta @ hours @	\$140.00 \$350.00	per sta per hour	\$785.40 \$1,400.00	
EXCAVATION Side cast Widening Road Prism Construct ditch- Grade and shape subgrade -				0.200 0.200 5.61 5.61	acres @ acres @ stations @ stations @	\$140.00 \$140.00 \$67.19 \$14.60	•	\$28.00 \$28.00 \$376.94 \$81.91	
MISC. Roll subgrade w/ vibratory ro Reconstruct turnaround @ st Grass seed and fertilize -				5.61 1.00 12.00	stations @ @ Ibs @	\$12.12 \$134.62 \$5.00		\$67.99 \$134.62 \$60.00	
CONSTRUCTION					TOTAL CLEA	RING, GRUBBING	, EXCAVATIO	N, FILL, and MISC.	\$2,962.86
CONSTRUCTION									
CLEARING/GRUBBING Scattering Organic Debris Construct waste areas -				19.16 6.00	sta @ hours @	\$280.00 \$350.00	per sta per hour	\$5,364.80 \$2,100.00	
EXCAVATION Road Construction Earthwork Grade and shape subgrade - Full Bench				19.16 19.16 4000	sta. @ stations @ cy. @	\$194.44 \$14.60 \$2.00	per sta. = per station per c.y.=	\$3,725.47 \$279.74 \$8,000.00	
MISC. Roll subgrade w/ vibratory ro Construct turnouts @ sta Construct turnaround @ sta. Construct landing - Grass seed and fertilize -	_			19.16 2.00 3.00 2.00 49.20	stations @ @ @ @ Ibs @	\$12.12 \$134.62 \$134.62 \$538.46 \$5.00	each each	\$232.22 \$269.24 \$403.86 \$1,076.92 \$246.00	
ENDHAUL Full Bench				4000	cy. @ TOTAL CLEAI	\$2.57 RING, GRUBBING		\$10,280.00 N, FILL, and MISC.	\$31,978.25
CULVERTS - MAT			LATION						
	<u>Cul</u>	<u>verts</u> 90	LF of 18'	\$2,745.00 \$2,745.00		0	LF of 24"	\$0.00 \$0.00	
	<u>Cul</u>		es <u>& Markers</u> narkers	\$24.00 \$24.00				TOTAL CULVERTS	\$2,769.00
ROCK 0+00 to Energy Dissipator 0+00 to	24+77 See Culvert List 24+77	839 3 2,085	cy. of cy. of cy. of	1.25" Crushed Quarry Spalls Ballast	@ @ @	\$39.31 \$50.46 \$35.93	per c.y.=	\$32,981.09 \$151.38 \$74,914.05 TOTAL ROCK	\$108,046.52
								SUBTOTAL	\$145,756.63
MOBILIZATION								SUBTOTAL	\$4,844.99
OVERHEAD & GE	NERAL EXPE	NSES		10%				SUBTOTAL	\$15,060.16
Optional Rock?	NO						cos	TOTAL ST PER STATION	\$165,661.78 \$6,688.00

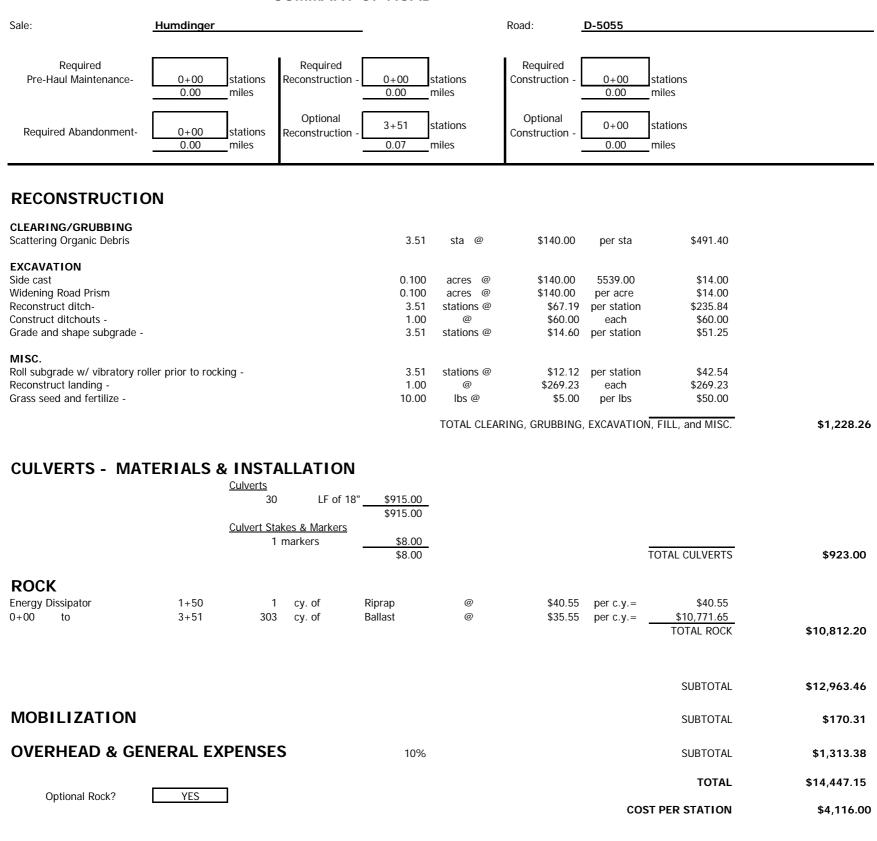
Sale:	Humdinger		_	Road:	D-3221	
Required Pre-Haul Maintenance-	0+00 stati 0.00 mile:		n - 0+00 stations 0.00 miles	Required Construction -	0+00 stations 0.00 miles	
Required Abandonment-	0+00 stati 0.00 mile:		0+00 stations 0.00 miles	Optional Construction -	1+66 stations 0.03 miles	
CONSTRUCTION						
CLEARING/GRUBBING Scattering Organic Debris			1.66 sta @	\$280.00	per sta \$464.80	
EXCAVATION Road Construction Earthwor Grade and shape subgrade			1.66 sta. @ 1.66 stations @	\$194.44 \$14.60	per sta. = \$322.77 per station \$24.24	
MISC. Roll subgrade w/ vibratory r Construct landing - Grass seed and fertilize -	oller prior to rocking -		1.66 stations @ 1.00 @ 5.00 lbs @	\$12.12 \$538.46 \$5.00	each \$538.46	
			TOTAL CL	EARING, GRUBBING	G, EXCAVATION, FILL, and MISC.	\$1,395.39
ROCK 0+00 to	1+66	219 cy. of	Ballast @	\$35.7 <i>6</i>	o per c.y.= \$7,831.44 TOTAL ROCK	\$7,831.44
					SUBTOTAL	\$9,226.83
MOBILIZATION					SUBTOTAL	\$193.49
OVERHEAD & GE	NERAL EXPEN	ISES	10%		SUBTOTAL	\$942.03
Optional Rock?	YES				TOTAL	\$10,362.35
					COST PER STATION	\$6,242.38





Sale:	Humdinger				Road:	D-5200		
Required Pre-Haul Maintenance- Required Abandonment-	37+10 stations miles 0.70 miles 0+00 stations miles	Required Reconstruction - Optional Reconstruction -	0.00	stations miles stations miles	Required Construction - Optional Construction -	0+00 0.00 0+00 0.00	stations miles stations miles	
PRE-HAUL MAIN	TENANCE				-			
CLEARING Roadside Brushing			0.70	miles @	\$1,170.00	per mile =	\$819.00	
EXCAVATION Clean ditch & culverts			37.10	stations @	\$50.39	per station	\$1,869.47	
MISC. Grade and shape existing roa Roll shaped road surface w/		ing -	37.10 37.10	stations @ stations @ TOTAL CLEAR	\$18.25 \$9.70 RING, GRUBBING		\$677.08 \$359.87 N, FILL, and MISC.	\$3,725.42
							SUBTOTAL	\$3,725.42
MOBILIZATION							SUBTOTAL	\$516.57
OVERHEAD & GE	NERAL EXPENSE	:S	10%				SUBTOTAL	\$424.20
Optional Rock?	NO					cos	TOTAL ST PER STATION	\$4,666.19 \$125.77
						50.		Ţ.20.77

Sale:	Humdinger		_		Road:	D-3222		
Required Pre-Haul Maintenance-	0+00 stations 0.00 miles	Required Reconstruction		ations iles	Required Construction -		stations miles	
Required Abandonment-	0+00 stations 0.00 miles	Optional Reconstruction	-	ations iles	Optional Construction -		stations miles	
RECONSTRUCTION	ON							
CLEARING/GRUBBING Scattering Organic Debris			2.25	sta @	\$140.00	per sta	\$315.00	
EXCAVATION Construct ditch- Construct ditchouts - Grade and shape subgrade -			1.00	stations @ @ stations @	\$67.19 \$60.00 \$14.60	per station each per station	\$151.18 \$60.00 \$32.85	
MISC. Roll subgrade w/ vibratory ro Reconstruct turnaround @ s Reconstruct landing - Grass seed and fertilize -			2.25 1.00 1.00 4.00	stations @ @ @ Ibs @	\$12.12 \$134.62 \$269.23 \$5.00	per station each each per lbs	\$27.27 \$134.62 \$269.23 \$20.00	
			٦	TOTAL CLEAR	RING, GRUBBING,	EXCAVATION	I, FILL, and MISC.	\$1,010.15
ROCK 0+00 to	2+25 20	cy. of	Ballast	@	\$35.84	per c.y.=	\$9,425.92 TOTAL ROCK	\$9,425.92
							SUBTOTAL	\$10,436.07
MOBILIZATION							SUBTOTAL	\$140.07
OVERHEAD & GE	NERAL EXPENS	ES	10%				SUBTOTAL	\$1,057.61
Optional Rock?	YES						TOTAL	\$11,633.75
						cos	T PER STATION	\$5,170.56





WASHINGTON STATE DEPARTMENT OF NATURAL RESOURCES

FOREST EXCISE TAX ROAD SUMMARY SHEET

Timber Sale Name:	
Application Number:	
EXCISE TAX APPLICABLE ACTIVITIES	
Construction:	linear feet
Road to be constructed (optional and required) but not aban	ndoned
Reconstruction:	linear feet
Road to be reconstructed (optional and required) but not ab	andoned
Abandonment:	linear feet
Abandonment of existing roads not reconstructed under the	contract
Decommission:	linear feet
Road to be made undriveable but not officially abandoned.	
Pre-Haul Maintenance:	linear feet
Existing road to receive maintenance work (optional and re	quired) prior to haul

EXCISE TAX EXEMPT ACTIVITIES

Temporary Construction: linear feet

Roads to be constructed (optional and required) and

then abandoned

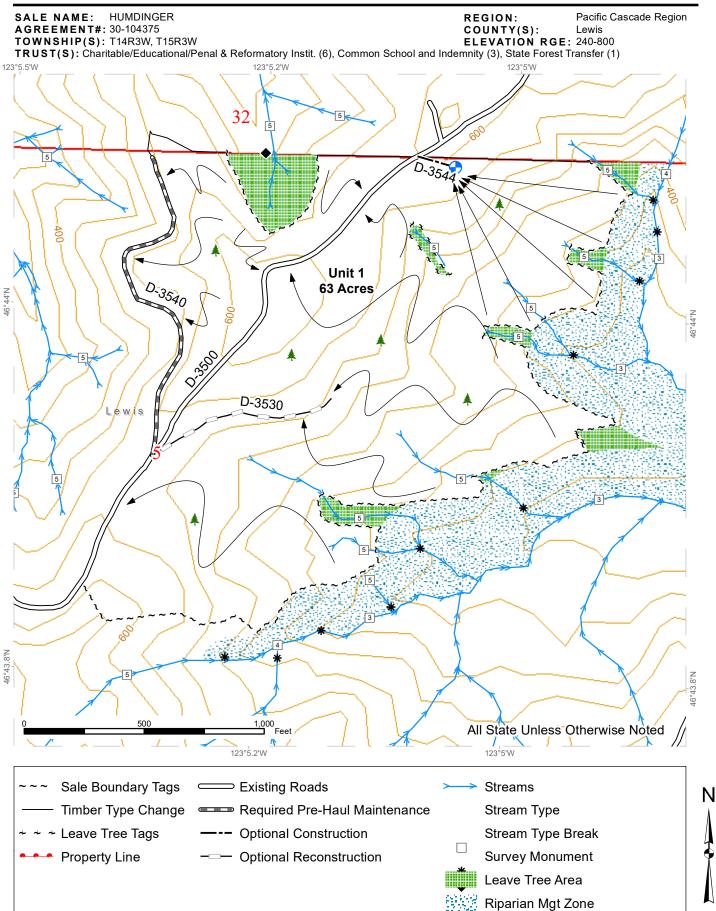
Region:

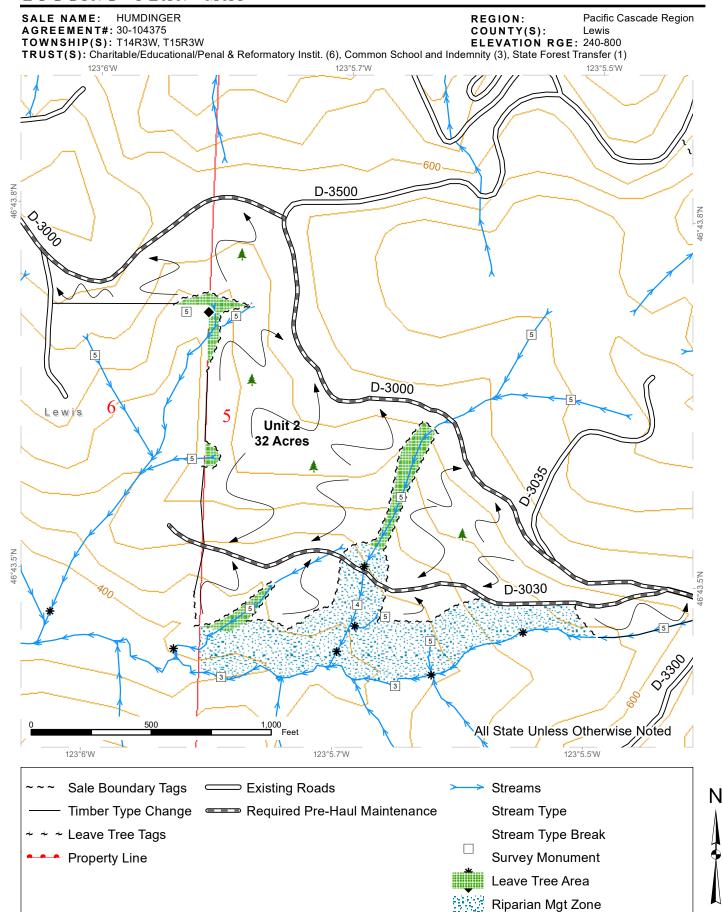
linear feet

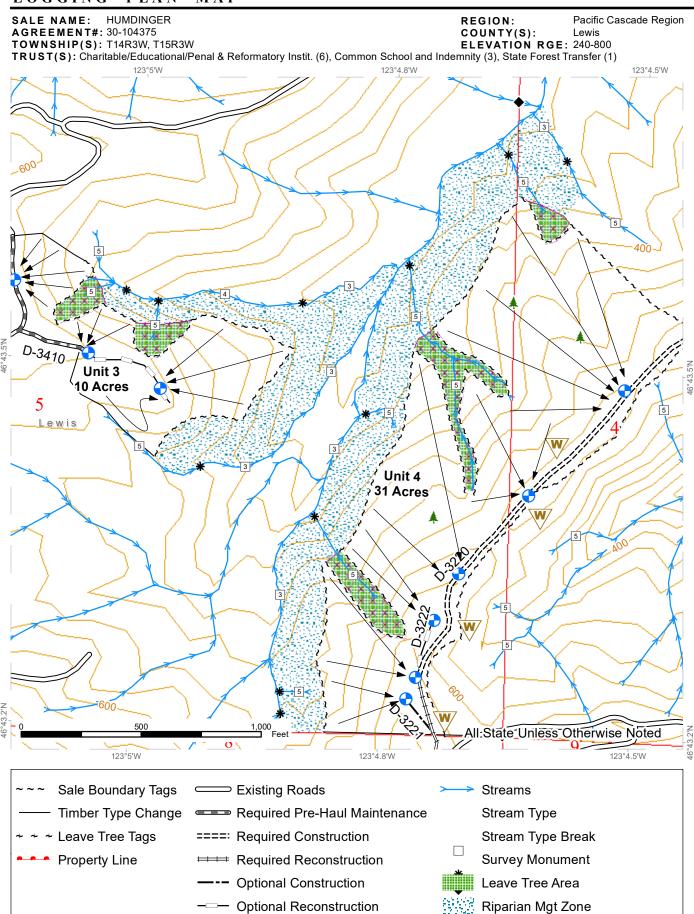
Temporary Reconstruction:

Roads to be reconstructed (optional and required) and then abandoned

All parties must make their own assessment of the taxable or non-taxable status of any work performed under the timber sale contact. The Department of Revenue bears responsibility for determining forest road excise taxes. The Department of Natural Resources developed this form to help estimate the impact of forest excise taxes. However, the information provided may not precisely calculate the actual amount of taxes due. The Department of Revenue is available for consultation by calling 1.800.548.8829. (Revised 9/18)

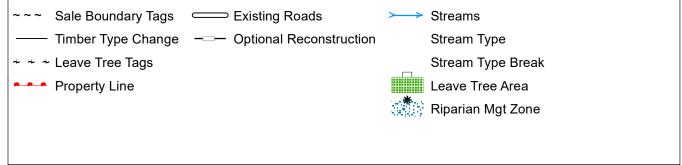






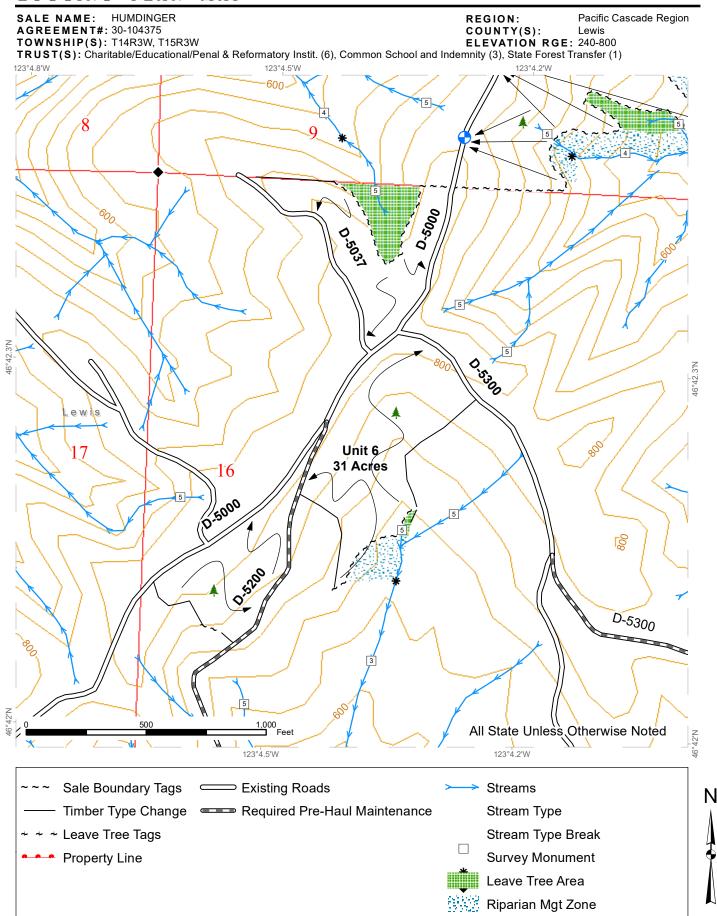
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LOGGING PLAN MAP HUMDINGER SALE NAME: REGION: Pacific Cascade Region **AGREEMENT#**: 30-104375 COUNTY(S): Lewis TOWNSHIP(S): T14R3W, T15R3W ELEVATION RGE: 240-800 TRUST(S): Charitable/Educational/Penal & Reformatory Instit. (6), Common School and Indemnity (3), State Forest Transfer (1) D-5000 D-5055 Unit 5 D-5000 19 Acres e w i 55 9 All State Unless Otherwise Noted)0 123°3.5'W 123°3.8'W Sale Boundary Tags Existing Roads Streams Timber Type Change — Optional Reconstruction Stream Type



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HUMDINGER SALE NAME: REGION: Pacific Cascade Region **AGREEMENT#**: 30-104375 COUNTY(S): Lewis TOWNSHIP(S): T14R3W, T15R3W ELEVATION RGE: 240-800 TRUST(S): Charitable/Educational/Penal & Reformatory Instit. (6), Common School and Indemnity (3), State Forest Transfer (1) 123°4.5'W 123°4'W 0.3000 D-5040 Unit 6 31 Acres .e.wis 5 0.530 All State Unless Otherwise Noted 123°4.5'W Sale Boundary Tags ─ Existing Roads Streams Ν Timber Type Change Required Pre-Haul Maintenance Stream Type → Leave Tree Tags Stream Type Break **Survey Monument** Property Line Leave Tree Area Riparian Mgt Zone



LOGGING PLAN M A P HUMDINGER SALE NAME: REGION: Pacific Cascade Region **AGREEMENT#**: 30-104375 COUNTY(S): Lewis TOWNSHIP(S): T14R3W, T15R3W ELEVATION RGE: 240-800 TRUST(S): Charitable/Educational/Penal & Reformatory Instit. (6), Common School and Indemnity (3), State Forest Transfer (1) 123°4.8'W Lewis Unit 7 18 Acres All State Unless Otherwise Noted 123°4.8'W 123°4.5'W 123°4.2'W Sale Boundary Tags Existing Roads Streams Ν Timber Type Change Required Pre-Haul Maintenance Stream Type → Leave Tree Tags Stream Type Break **Survey Monument** Property Line Leave Tree Area Riparian Mgt Zone Wetlands - Non-forested

HUMDINGER

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