



TIMBER NOTICE OF SALE

SALE NAME: WEATHERMAN

AGREEMENT NO: 30-105537

AUCTION: September 26, 2024 starting at 10:00 a.m., COUNTY: Grays Harbor Pacific Cascade Region Office, Castle Rock, WA

SALE LOCATION: Sale located approximately 8 miles West of Oakville, WA

PRODUCTS SOLD AND SALE AREA:

All timber, except leave trees bound by yellow "Leave Tree Area" tags, leave trees marked with blue paint, and all down timber greater than 36 inches in diameter, all down timber existing 5 years prior to the day of sale and snags bound by the following:

Unit 1, white "Timber Sale Boundary" tags with pink flagging, reprod, Brooklyn Road, BR-3000 and BR-3100 roads;

Unit 2, white "Timber Sale Boundary" tags with pink flagging and reprod;

Unit 3 ROW, orange "Right of Way" tags with pink flagging and the BR-2000 road;

All forest products above located on part(s) of Sections 1, 2, 11 and 12 all in Township 15 North, Range 6 West, W.M., containing 98 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:

Table with columns: Species, Avg DBH, Ring Count, Total MBF, and MBF by Grade (1P, 2P, 3P, SM, 1S, 2S, 3S, 4S, UT). Rows include Hemlock, Douglas fir, Red alder, Spruce, Redcedar, Maple, and Sale Total.

MINIMUM BID: \$1,158,000.00 BID METHOD: Sealed Bids

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

EXPIRATION DATE: October 31, 2026 ALLOCATION: Export Restricted

BID DEPOSIT: \$115,800.00 or Bid Bond. Said deposit shall constitute an opening bid at the appraised price.



TIMBER NOTICE OF SALE

HARVEST METHOD: Cable, Cable-Assist, and Shovel. This sale is estimated to be 15 percent cable/cable assist harvest systems and 85 percent ground based harvest systems. Ground based yarding equipment will not be permitted on sustained slopes over 45 percent. Self-leveling shovels will not be permitted on sustained slopes greater than 60 percent. Cable assist equipment will not be permitted on sustained slopes over 75 percent. For additional harvesting restrictions see Clause H-140 in the contract.

ROADS: 38.35 stations of optional construction. 83.90 stations of required prehaul maintenance.

Rock used in accordance with the quantities on the ROCK LIST may be obtained from a 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.

ACREAGE DETERMINATION

CRUISE METHOD: The sale acres were determined by GPS delineation. Cruise was completed using variable plot cruise methods.

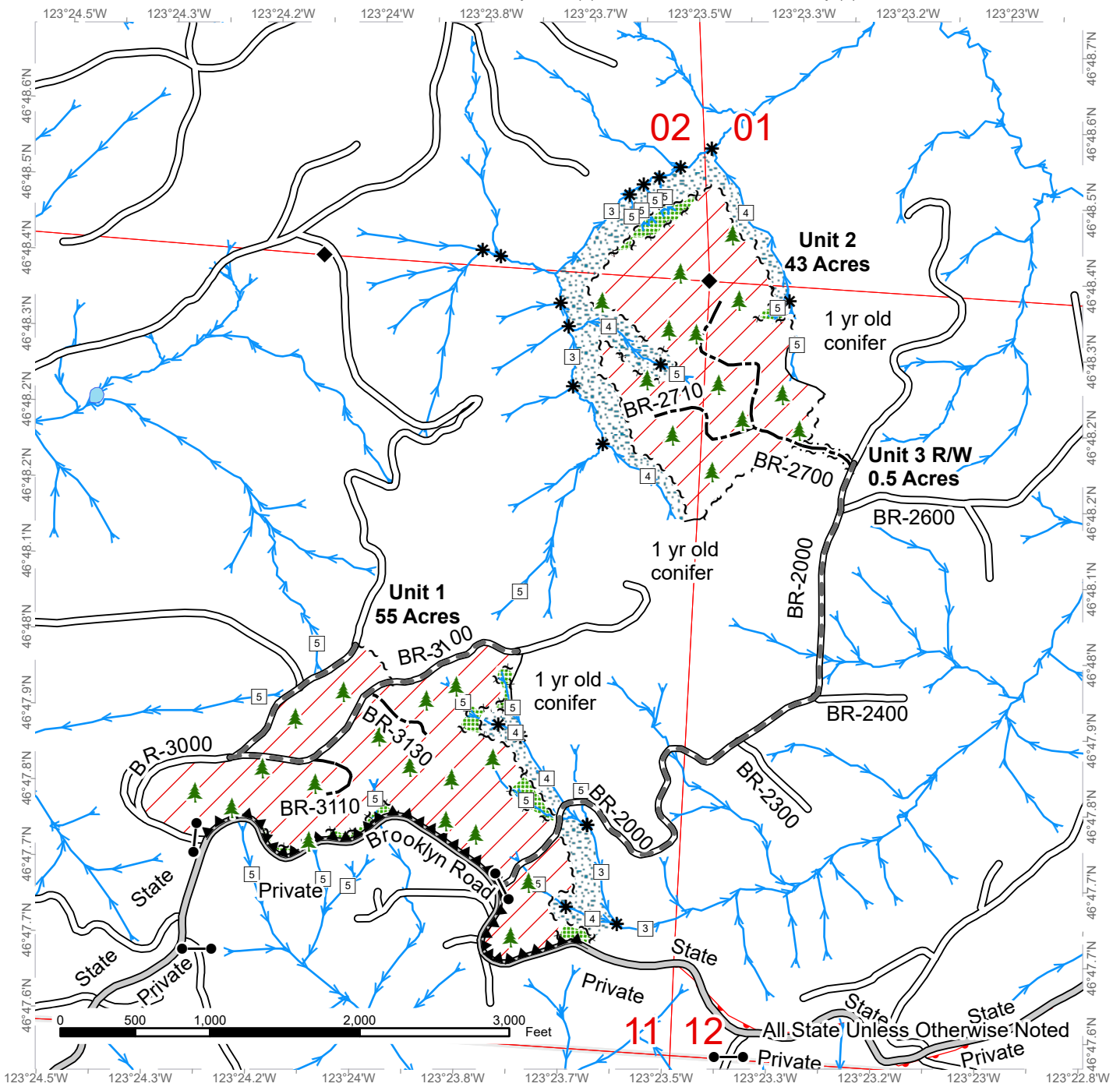
FEES: \$77,418.00 is due on day of sale. \$9.00 per MBF is due upon removal. These are in addition to the bid price.

SPECIAL REMARKS: This sale contains approximately 99 MBF SM DF, 138 MBF High Quality 2 saw DF, 42 MBF High Quality 3 saw DF. See Cruise for additional information.

TIMBER SALE MAP

SALE NAME: WEATHERMAN
AGREEMENT #: 30-105537
TOWNSHIP(S): T15R6W
TRUST(S): Charitable/Educational/Penal & Reformatory Instit. (6), Common School and Indemnity (3)

REGION: Pacific Cascade Region
COUNTY(S): Grays Harbor
ELEVATION RGE: 680-1120

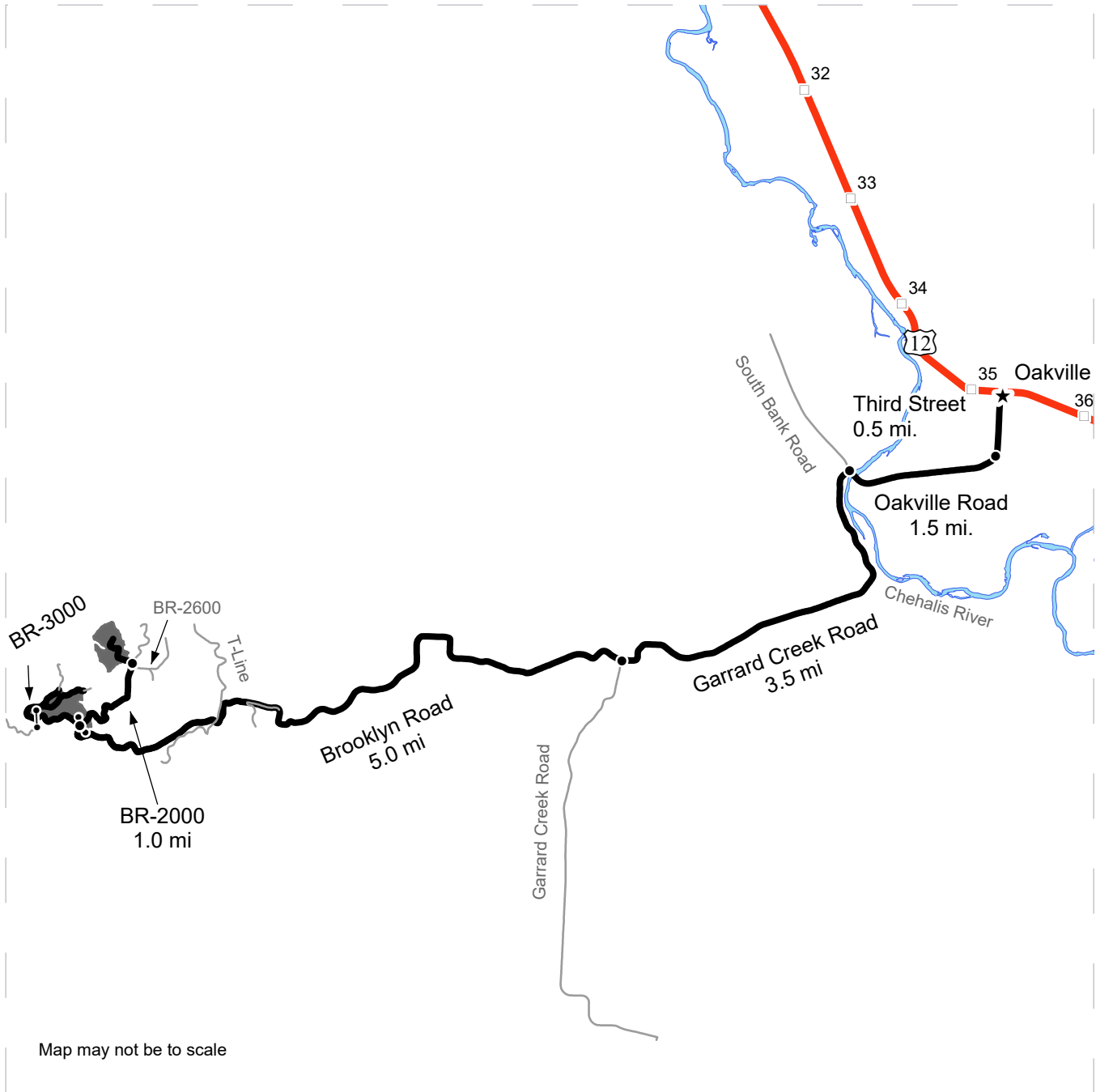


Leave Tree Area	Optional Construction
Riparian Mgt Zone	Streams
Hazard Abatement Area	Gate (PCP 1-1)
County Road	Leave Tree Area <1/4-acre
Existing Roads	Survey Monument
Required Pre-Haul Maintenance	

DRIVING MAP

SALE NAME: WEATHERMAN
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Map may not be to scale

- Distance Indicator
- ⊙ Gate (PCP 1-1)
- Timber Sale Unit
- Haul Route
- Other Road
- Highway
- Milepost Markers
- ★ Town

DRIVING DIRECTIONS:

Weatherman is located off of Brooklyn Rd in Grays Harbor County. From Highway 12 at the town of Oakville turn south on Third St. After 0.5 miles continue onto Oakville Rd. Continue west on Oakville Rd for 1.5 miles, then turn south onto Garrard Creek Rd. Continue for 3.5 miles to Brooklyn Rd. Take a right on the Brooklyn Rd and follow for 5 miles to the BR-2000 and Unit 1. Turn right on the BR-2000 for 1 mile to Unit 2. Follow stakes and flagging to Unit 2.



**STATE OF WASHINGTON
DEPARTMENT OF NATURAL RESOURCES**

**BILL OF SALE AND CONTRACT FOR
FOREST PRODUCTS**

Export Restricted Lump Sum AGREEMENT NO. 30-0105537

SALE NAME: WEATHERMAN

**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.

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 September 26, 2024 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 leave trees bound by yellow "Leave Tree Area" tags, leave trees marked with blue paint, and all down timber greater than 36 inches in diameter, all down timber existing 5 years prior to the day of sale and snags bound by the following;

Unit 1, white "Timber Sale Boundary" tags with pink flagging, reprod, Brooklyn Road, BR-3000 and BR-3100 roads;

Unit 2, white "Timber Sale Boundary" tags with pink flagging and reprod;

Unit 3 ROW, orange "Right of Way" tags with pink flagging and the BR-2000 road;

All forest products described above located on approximately 98 acres on part(s) of Sections 1, 2, 11, and 12 all in Township 15 North, Range 6 West W.M. in Grays Harbor 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, 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, 2026.

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.
- 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 \$1,256.00 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 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 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.
- 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 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.

The pricing schedule has not been set for the sale.

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.

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.

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 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 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.

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.

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.

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; BR-2000, BR-2700, BR-2710, BR-3000, BR-3100, BR-3110 and BR-3130. 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, re-establish 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 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 Brooklyn Road and BR-3000 road, unless authority is granted in writing by the Contract Administrator.

G-396 Public Hauling Permit

The hauling of forest products, rock or equipment may require a state, county, or city hauling permit. Purchaser is responsible for obtaining any necessary permit and any costs associated with extra maintenance or repair levied by the permitting agency. Purchaser must provide the Contract Administrator with a copy of the executed permit.

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 \$118,404.00. The total contract price consists of a \$0.00 contract bid price plus \$118,404.00 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.

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.

Section H: Harvesting Operations

H-001 Operations Outside the Sale Boundaries

No operations shall occur outside the sale boundaries, as described within the contract, unless approved in writing by the State.

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-035 Fall Trees Into Sale Area

Trees shall be felled into the sale area unless otherwise approved by the Contract Administrator.

H-040 Purchaser Harvest Plan

Purchaser shall, as part of the plan of operations, prepare an acceptable harvest plan for all units. The plan shall address the falling, bucking and yarding, which are part(s) of this contract. The harvest plan shall be approved by the Contract Administrator prior to beginning the harvest operation. Purchaser shall not deviate from the harvest plan without prior written approval 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.

H-120 Harvesting Equipment

Forest products sold under this contract shall be harvested and removed using cable, cable-assist or shovel. 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 shall only operate during dry soil conditions.

C. Shovels must be large enough to pick up one end of the largest log 35 feet from machine.

D. Ground based yarding equipment will not be permitted on sustained slopes over 45 percent.

E. Self-Leveling ground based yarding equipment will not be permitted on sustained slopes over 60 percent.

F. All trees 60 inches Diameter at Breast Height (DBH) and greater shall not be felled unless for safety reasons. If trees 60 inches DBH or greater needs to be felled for safety reasons, trees will be left where felled.

G. Long butts remaining on the sale must be dispersed as directed by the Contract Administrator.

H. Cable assist operations will not be permitted on slopes over 75 percent.

I. Cable-assist will only be allowed in areas where a written harvest plan has been provided to the CA and the CA has provided written approval for cable-assist logging to occur.

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

H-141 Additional Harvest Requirements

Purchaser shall accomplish the following during the harvest operations:

A. 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.

B. No Yarding will be permitted through or over areas identified to be potentially unstable on the FPA Slope Stability Form and all maps.

C. Within shovel logging areas, the shovel operator shall break up concentrations of logging debris greater than 10 feet by 10 feet to allow exposure of natural soils to ensure proper reforestation.

D. Any and all snags cut because of safety concerns cannot be removed and must remain where they were felled.

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

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.

H-230 Tops and Limbs Outside the Sale Boundary

Tops and limbs outside the sale boundary as a result of Purchaser's operation shall be removed concurrently with the yarding operation unless otherwise directed by the Contract Administrator.

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 12/27/2023 are hereby made a part of this contract.

C-050 Purchaser Road Maintenance and Repair

Purchaser shall perform work at their own expense on BR-2000, BR-2700, BR-2710, BR-3100, BR-3110 and BR-3130 roads. 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.

C-080 Landing Locations Approved Prior to Construction

Landings shall be marked by Purchaser and approved by the Contract Administrator prior to construction.

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.

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

S-020 Extreme Hazard Abatement

Purchaser shall provide a written Extreme Hazard Abatement plan that meets the requirements of WAC 332-24 prior to the beginning of logging operations. The plan must be acceptable to the Contract Administrator. The plan will identify how Purchaser will accomplish abatement. Purchaser shall also provide, and keep current, a written timetable for completion of all specified work in the plan. The Contract Administrator's acceptance and approval of Purchaser's hazard abatement plan shall not

be construed as any statement or warranty that the hazard abatement plan is adequate for Purchaser's purposes or complies with applicable laws.

Extreme Hazard Abatement in Unit 1 along Brooklyn Road.

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-070 Water Supply

Purchaser shall provide, during the "closed season", a water supply with a minimum capacity of 300 gallons for rapid filling of pump trucks or trailers at a location designated by the Contract Administrator.

S-100 Stream Cleanout

Slash or debris which enters all streams as a result of operations under this contract and which is identified by the Contract Administrator shall be removed and deposited in a stable position. Removal of slash or debris shall be accomplished in a manner that avoids damage to the natural stream bed and bank vegetation.

S-110 Resource Protection

No ground based equipment may operate within 30 feet of Type 5 streams unless authority is granted in writing by the Contract Administrator.

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 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 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 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

Print Name

Pacific Cascade Region Manager

Date: _____

Date: _____

Address: _____

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

STATE OF _____)

COUNTY OF _____)

On this _____ day of _____, 20____, before me personally
appeared _____

_____ to me known to be the
_____ of the corporation
that executed the within and foregoing instrument and acknowledged said instrument to be the
free and voluntary act and deed of the corporation, for the uses and purposes therein mentioned,
and on oath stated that (he/she was) (they were) authorized to execute said instrument.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal the day and
year first above written.

Notary Public in and for the State of

My appointment expires _____

PRE-CRUISE NARRATIVE

Sale Name: Weatherman	Region: Pacific Cascade
Agreement #: 30-105537	District: Lewis
Contact Forester: Mark Smith Phone / Location: 360-827-1247	County(s): Grays Harbor, Choose a county
Alternate Contact: Dave Sund Phone / Location: 360-880-5802	Other information: Click here to enter text.

Type of Sale: Lump Sum	
Harvest System: Ground based Click here to enter text.	85
Harvest System: Uphill Cable Click here to enter text.	15
Enter % of sale acres	

UNIT ACREAGES AND METHOD OF DETERMINATION:

Unit #	Legal Description (Enter only one legal for each unit) Sec/Twp/Rng	Grant or Trust	Gross Proposal Acres	Deductions from Gross Acres (No harvest acres)				Net Harvest Acres	Acreage Determination (List method and error of closure if applicable)
				RMZ/ WMZ Acres	Leave Tree Acres	Existing Road Acres	Other Acres (describe)		
1	Sec 11 / T15N06W	03,06	69	6.8	3.6	3.9	0	54.7	GPS (Trimble)
2	Sec 1,2,11,12 / T15N06W	03,06	62.8	17.9	1.7	0	0	43.2	GPS (Trimble)
3 ROW	Sec 12 / T15N06W	03,06	.5	0	0	0	0	.5	GPS (Trimble)
TOTAL ACRES			132.3	24.7	5.3	3.9	0	98.4	

HARVEST PLAN AND SPECIAL CONDITIONS:

Unit #	Harvest Prescription: (Leave, take, paint color, tags, flagging etc.)	Special Management areas:	Other conditions (# leave trees, etc.)
1	Variable Retention Harvest: Boundaries are marked with white "Timber Sale Boundary" tags and pink flagging. Clumped leave trees are marked with yellow "Leave Tree Area" tags, pink flagging and blue paint.		Leave Tree clumps are marked with yellow "Leave Tree Area" tags, individual trees marked with blue paint at DBH and blue butt marks
2	Variable Retention Harvest: Boundaries are marked with white "Timber Sale Boundary" tags and pink "Timber Harvest Boundary" flagging. Clumped leave trees are marked with yellow "Leave Tree Area" tags, pink flagging and blue paint.		Leave Tree clumps are marked with yellow "Leave Tree Area" tags, individual trees marked with blue paint at DBH and blue butt marks
3	Boundaries are marked with orange "Right of Way Boundary" tags and pink "Timber Harvest Boundary" flagging.		Centerline marked with stakes and orange flagging

OTHER PRE-CRUISE INFORMATION:

Unit #	Primary,secondary Species / Estimated Volume (MBF)	Access information (Gates, locks, etc.)	Photos, traverse maps required
1	DF/WH 2559	BR-2000 or BR-3000 (PCP 1-1)	Logging Plan Map
2	DF/WH 1979	BR-2000 (PCP 1-1)	
3	DF/WH 15	BR-2000 (PCP 1-1)	
TOTAL MBF	4553		

REMARKS:

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Prepared By: Mark Smith Date: 5/30/2023	Title: NRS1	CC: Dave Sund
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Timber Sale Cruise Report Weatherman

Sale Name: WEATHERMAN

Sale Type: LUMP SUM

Region: PACIFIC CASC,PACIFIC CASC

District: LEWIS,LEWIS

Lead Cruiser: Dylan Buchanan

Other Cruisers:B. Warnstadt

Cruise Narrative:

Location: The Weatherman timber sale is located approximately 10 miles southwest of Oakville. It can be accessed off the Brooklyn Road and the BR-2000 line.

Cruise Design: Units 1 and 2 were both cruised using a 54.44 BAF sighted at 4.5 feet. Plots were cruised with a measure to count plot ratio of 1:1. Unit 3 ROW was cruised using a 40 BAF sighted at 4.5 feet with all plots measured. Conifers were cruised to 40 foot preferred log lengths and hardwoods cruised to 30 foot preferred lengths.

Timber Quality: Unit 1 and Unit 2 are mostly Western Hemlock with Douglas Fir. There is a moderate amount of Red Alder and a trace of Western Red Cedar and Sitka Spruce. Large gaps were present in both stands. RA is large but some over ripe and bearing rot. A lot of downed wood throughout.

Unit 1- A lot of broken tops noted from wind damage, and persistent spike knots found through out the Unit. Average DBH of DF is 21.5" and WH is 20.1". The DF is mostly regular domestic with a small amount of High Quality and Special Mill. WH had persistent Dwarf Mistletoe. 3-4 acres of younger aged timber on the east end of the unit. Some of which is HQB DF.

Unit 2-The WH has an average diameter of 18.3" and looks pretty nice. The most common defect observed being spike knots. The DF has an average diameter of 24.2" at 4.5". It is mostly regular domestic sorts with some High Quality B, Special Mill, and a couple 3P peeler logs. Unit 2 DF has some spike knots and oversized limbs with a few small -pockets of root disease. Remaining average diameters include RA- 14.7" RC- 22.4 and SS 22".

Unit 3 ROW- Mostly WH. Similar to Unit 1 and 2 with less damage due to the location.

Logging and Stand Conditions: This sale is moderately sloped and estimated to be 85% ground based logging and 15% uphill cable.

General Remarks:

Timber Sale Notice Volume (MBF)

Sp	DBH	Rings/In	Age	MBF Volume by Grade						
				All	Peeler	Spec Mill	2 Saw	3 Saw	4 Saw	Utility
WH	19.2			2,998			2,040	822	109	26
DF	22.5	8.0		1,252	13	99	848	267	21	4
RA	17.0			278			124	76	77	
SS	31.0			12			12			0
RC	22.4			9				9		
MA	24.0			5			4		1	
ALL	19.5	8.0		4,554	13	99	3,029	1,174	208	31

Timber Sale Notice Weight (tons)

Sp	Tons by Grade						
	All	Peeler	Spec Mill	2 Saw	3 Saw	4 Saw	Utility
WH	23,520			15,021	7,194	1,072	233
DF	8,489	63	605	5,479	2,112	201	30
RA	2,293			875	577	841	
SS	101			98			4
RC	79				79		
MA	50			34		16	
ALL	34,534	63	605	21,507	9,963	2,130	267

Timber Sale Overall Cruise Statistics

BA (sq ft/acre)	BA SE (%)	V-BAR (bf/sq ft)	V-BAR SE (%)	Net Vol (bf/acre)	Vol SE (%)
248.2	4.5	186.5	1.7	46,276	4.8

Timber Sale Unit Cruise Design

Unit	Design	Cruise Acres	FMA Acres	N Plots	N Cruise Plots	N Void Plots
WEATHERMAN U1	B1C: VR, 1 BAF (54.44) Measure/ Count Plots, Sighting Ht = 4.5 ft	54.7	61.5	55	27	0
WEATHERMAN U2	B1C: VR, 1 BAF (54.44) Measure/ Count Plots, Sighting Ht = 4.5 ft	43.2	44.8	47	25	0
WEATHERMAN U3 ROW	B1: VR, 1 BAF (40) Measure All, Sighting Ht = 4.5 ft	0.5	0.5	2	2	0
All		98.4	106.7	104	54	0

Timber Sale Log Grade x Sort Summary

Sp	Status	Grade	Sort	Dia	Len	BF Gross	BF Net	Defect %	Tons	MBF Net
DF	LIVE	2 SAW	Domestic	16.8	40	7,624	7,208	5.5	4,514.2	709.3
DF	LIVE	2 SAW	HQ-B	14.7	40	1,462	1,405	3.9	965.0	138.2
DF	LIVE	3 PEELER	Domestic	26.0	40	129	129	0.0	62.7	12.7
DF	LIVE	3 SAW	Domestic	9.0	38	2,365	2,285	3.4	1,823.0	224.8
DF	LIVE	3 SAW	HQ-B	11.3	40	440	428	2.7	288.7	42.1
DF	LIVE	4 SAW	Domestic	6.6	24	221	218	1.4	201.0	21.4
DF	LIVE	CULL	Cull	7.3	7	83	0	100.0	0.0	0.0
DF	LIVE	SPECIAL MILL	HQ-A	16.7	40	1,003	1,003	0.0	604.8	98.7
DF	LIVE	UTILITY	Pulp	6.2	14	44	44	0.0	29.5	4.3
MA	LIVE	2 SAW	Domestic	17.2	30	61	42	30.1	34.3	4.2
MA	LIVE	4 SAW	Domestic	7.8	36	11	8	26.2	16.0	0.8
RA	LIVE	2 SAW	Domestic	14.4	30	1,403	1,265	9.8	875.2	124.5
RA	LIVE	3 SAW	Domestic	11.1	31	846	777	8.2	577.5	76.4
RA	LIVE	4 SAW	Domestic	6.4	33	857	781	8.8	840.8	76.9
RA	LIVE	CULL	Cull	5.9	3	8	0	100.0	0.0	0.0
RC	LIVE	3 SAW	Domestic	12.3	36	104	91	12.4	79.4	8.9
RC	LIVE	CULL	Cull	6.6	18	9	0	100.0	0.0	0.0
SS	LIVE	2 SAW	Domestic	16.1	38	148	123	16.6	97.5	12.1
SS	LIVE	CULL	Cull	11.0	9	3	0	100.0	0.0	0.0
SS	LIVE	UTILITY	Pulp	7.2	14	4	3	25.0	3.9	0.3
WH	LIVE	2 SAW	Domestic	15.7	40	22,162	20,736	6.4	15,020.6	2,040.4
WH	LIVE	3 SAW	Domestic	9.0	39	8,701	8,356	4.0	7,194.3	822.2
WH	LIVE	4 SAW	Domestic	6.0	26	1,139	1,107	2.8	1,072.1	108.9
WH	LIVE	CULL	Cull	6.3	6	129	0	100.0	0.0	0.0
WH	LIVE	UTILITY	Pulp	6.6	13	268	268	0.0	233.2	26.4

Timber Sale Log Sort x Diameter Bin Summary

Sp	Bin	Status	Sort	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	5 - 7	LIVE	Pulp	5.8	14	32	0.0	21.7	3.2
DF	5 - 7	LIVE	Cull	6.1	7	0	100.0	0.0	0.0
DF	5 - 7	LIVE	Domestic	6.7	32	650	1.6	568.6	63.9
DF	8 - 11	LIVE	Cull	8.7	9	0	100.0	0.0	0.0
DF	8 - 11	LIVE	Domestic	9.9	37	1,853	3.8	1,455.4	182.3
DF	8 - 11	LIVE	Pulp	10.3	14	5	0.0	4.1	0.5
DF	8 - 11	LIVE	HQ-B	11.3	40	428	2.7	288.7	42.1
DF	12 - 15	LIVE	Pulp	12.2	14	6	0.0	3.7	0.6

Sp	Bin	Status	Sort	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	12 - 15	LIVE	Cull	13.5	2	0	100.0	0.0	0.0
DF	12 - 15	LIVE	Domestic	13.6	40	2,020	5.4	1,492.2	198.8
DF	12 - 15	LIVE	HQ-B	14.0	40	1,014	3.6	705.9	99.8
DF	12 - 15	LIVE	HQ-A	14.8	40	357	0.0	230.5	35.2
DF	16+	LIVE	HQ-A	18.8	40	645	0.0	374.4	63.5
DF	16+	LIVE	HQ-B	19.2	40	391	4.9	259.0	38.4
DF	16+	LIVE	Domestic	20.2	40	5,317	5.3	3,084.7	523.2
MA	5 - 7	LIVE	Domestic	7.8	36	8	26.2	16.0	0.8
MA	16+	LIVE	Domestic	17.2	30	42	30.1	34.3	4.2
RA	5 - 7	LIVE	Cull	5.7	3	0	100.0	0.0	0.0
RA	5 - 7	LIVE	Domestic	5.8	32	546	10.8	634.4	53.8
RA	8 - 11	LIVE	Cull	8.7	3	0	100.0	0.0	0.0
RA	8 - 11	LIVE	Domestic	10.3	31	1,012	7.3	783.9	99.5
RA	12 - 15	LIVE	Domestic	13.8	30	939	7.9	649.8	92.4
RA	16+	LIVE	Domestic	17.4	30	325	14.9	225.4	32.0
RC	5 - 7	LIVE	Cull	6.6	18	0	100.0	0.0	0.0
RC	8 - 11	LIVE	Domestic	11.0	35	47	14.7	43.0	4.6
RC	12 - 15	LIVE	Domestic	15.7	40	44	9.9	36.4	4.3
SS	5 - 7	LIVE	Pulp	7.2	14	3	25.0	3.9	0.3
SS	8 - 11	LIVE	Cull	11.0	9	0	100.0	0.0	0.0
SS	12 - 15	LIVE	Domestic	13.3	37	42	29.9	52.7	4.2
SS	16+	LIVE	Domestic	23.7	40	81	7.4	44.8	7.9
WH	5 - 7	LIVE	Cull	5.7	6	0	100.0	0.0	0.0
WH	5 - 7	LIVE	Pulp	6.1	13	197	0.0	166.0	19.3
WH	5 - 7	LIVE	Domestic	6.2	33	2,504	2.6	2,381.6	246.4
WH	8 - 11	LIVE	Cull	8.2	4	0	100.0	0.0	0.0
WH	8 - 11	LIVE	Pulp	8.5	13	46	0.0	51.3	4.5
WH	8 - 11	LIVE	Domestic	9.8	37	6,806	3.6	5,759.7	669.7
WH	12 - 15	LIVE	Pulp	12.4	14	26	0.0	16.0	2.5
WH	12 - 15	LIVE	Cull	12.5	2	0	100.0	0.0	0.0
WH	12 - 15	LIVE	Domestic	13.8	40	9,488	4.1	7,255.3	933.6
WH	16+	LIVE	Domestic	19.1	40	11,401	8.6	7,890.3	1,121.8

Cruise Unit Report WEATHERMAN U1

Unit Sale Notice Volume (MBF): WEATHERMAN U1

Sp	DBH	Rings/In	Age	MBF Volume by Grade					
				All	Spec Mill	2 Saw	3 Saw	4 Saw	Utility
WH	20.1			1,567		1,149	354	55	9
DF	21.5			789	88	496	191	14	
RA	18.1			189		103	48	37	
SS	33.0			10		10			
MA	24.0			5		4		1	
ALL	20.2			2,559	88	1,763	593	106	9

Unit Cruise Design: WEATHERMAN U1

Design	Cruise Acres	FMA Acres	N Plots	N Cruise Plots	N Void Plots
B1C: VR, 1 BAF (54.44) Measure/Count Plots, Sighting Ht = 4.5 ft	54.7	61.5	55	27	0

Unit Cruise Summary: WEATHERMAN U1

Sp	Cruised Trees	All Trees	Trees/Plot	Ring-Count Trees
WH	72	150	2.7	0
DF	45	76	1.4	0
RA	23	29	0.5	0
SS	1	1	0.0	0
MA	1	1	0.0	0
ALL	142	257	4.7	0

Unit Cruise Statistics: WEATHERMAN 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 (%)
WH	148.5	84.2	11.4	192.9	24.0	2.8	28,640	87.6	11.7
DF	75.2	135.4	18.3	191.6	26.5	4.0	14,416	138.0	18.7
RA	28.7	170.6	23.0	120.1	22.7	4.7	3,448	172.1	23.5
SS	1.0	741.6	100.0	187.5	0.0	0.0	186	741.6	100.0
MA	1.0	741.6	100.0	92.3	0.0	0.0	91	741.6	100.0
ALL	254.4	51.6	7.0	183.9	28.6	2.4	46,781	59.0	7.4

Unit Summary: WEATHERMAN U1

Sp	Status	Rx	N	D	DBH	BL	THT	BF Gross	BF Net	Defect %	TPA	BA	RD	MBF Net
DF	LIVE	CUT	45	ALL	21.5	89	126	15,119	14,416	4.7	29.8	75.2	16.2	788.5
MA	LIVE	CUT	1	ALL	24.0	68	84	130	91	29.4	0.3	1.0	0.2	5.0
RA	LIVE	CUT	23	ALL	18.1	69	87	3,830	3,448	10.0	16.1	28.7	6.7	188.6
SS	LIVE	CUT	1	ALL	33.0	92	118	210	186	11.7	0.2	1.0	0.2	10.2
WH	LIVE	CUT	72	ALL	20.1	82	107	30,845	28,640	7.1	67.4	148.5	33.1	1,566.6
ALL	LIVE	CUT	142	ALL	20.3	82	109	50,134	46,781	6.7	113.8	254.4	56.5	2,558.9
ALL	ALL	ALL	142	ALL	20.3	82	109	50,134	46,781	6.7	113.8	254.4	56.5	2,558.9

Cruise Unit Report WEATHERMAN U2

Unit Sale Notice Volume (MBF): WEATHERMAN U2

Sp	DBH	Rings/In	Age	MBF Volume by Grade						
				All	Peeler	Spec Mill	2 Saw	3 Saw	4 Saw	Utility
WH	18.3			1,430			890	468	54	17
DF	24.2	8.0		450	13	11	344	71	7	4
RA	14.7			88			21	28	39	
RC	22.4			9				9		
SS	22.0			2			2			0
ALL	18.7	8.0		1,979	13	11	1,257	576	100	22

Unit Cruise Design: WEATHERMAN U2

Design	Cruise Acres	FMA Acres	N Plots	N Cruise Plots	N Void Plots
B1C: VR, 1 BAF (54.44) Measure/Count Plots, Sighting Ht = 4.5 ft	43.2	44.8	47	25	0

Unit Cruise Summary: WEATHERMAN U2

Sp	Cruised Trees	All Trees	Trees/Plot	Ring-Count Trees
WH	90	147	3.1	0
DF	29	43	0.9	1
RA	13	15	0.3	0
RC	2	2	0.0	0
SS	1	1	0.0	0
ALL	135	208	4.4	1

Unit Cruise Statistics: WEATHERMAN U2

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 (%)
WH	170.3	60.2	8.8	194.4	22.4	2.4	33,097	64.2	9.1
DF	49.8	157.6	23.0	209.3	21.4	4.0	10,424	159.1	23.3
RA	17.4	245.4	35.8	117.4	18.6	5.2	2,039	246.1	36.2
RC	2.3	479.5	69.9	89.2	23.7	16.8	207	480.1	71.9
SS	1.2	685.6	100.0	44.7	0.0	0.0	52	685.6	100.0
ALL	240.9	34.2	5.0	190.2	27.0	2.3	45,819	43.6	5.5

Unit Summary: WEATHERMAN U2

Sp	Status	Rx	N	D	DBH	BL	THT	BF Gross	BF Net	Defect %	TPA	BA	RD	MBF Net
DF	LIVE	CUT	29	ALL	24.2	100	128	10,991	10,424	5.2	15.6	49.8	10.1	450.3
RA	LIVE	CUT	13	ALL	14.7	64	85	2,219	2,039	8.1	14.7	17.4	4.5	88.1
RC	LIVE	CUT	2	ALL	22.4	70	89	255	207	19.1	0.8	2.3	0.5	8.9
SS	LIVE	CUT	1	ALL	22.0	52	64	86	52	39.8	0.4	1.2	0.2	2.2
WH	LIVE	CUT	90	ALL	18.2	89	117	34,704	33,097	4.6	94.2	170.3	39.9	1,429.8
ALL	LIVE	CUT	135	ALL	18.7	87	114	48,256	45,819	5.0	125.7	240.9	55.3	1,979.4
ALL	ALL	ALL	135	ALL	18.7	87	114	48,256	45,819	5.0	125.7	240.9	55.3	1,979.4

Cruise Unit Report WEATHERMAN U3 ROW

Unit Sale Notice Volume (MBF): WEATHERMAN U3 ROW

Sp	DBH	Rings/In	Age	MBF Volume by Grade				
				All	2 Saw	3 Saw	4 Saw	Utility
DF	20.5			13	8	4	0	0
WH	21.0			2	1	0		
RA	13.0			1			1	
ALL	19.2			15	9	5	1	0

Unit Cruise Design: WEATHERMAN U3 ROW

Design	Cruise Acres	FMA Acres	N Plots	N Cruise Plots	N Void Plots
B1: VR, 1 BAF (40) Measure All, Sighting Ht = 4.5 ft	0.5	0.5	2	2	0

Unit Cruise Summary: WEATHERMAN U3 ROW

Sp	Cruised Trees	All Trees	Trees/Plot	Ring-Count Trees
DF	8	8	4.0	0
WH	1	1	0.5	0
RA	1	1	0.5	0
ALL	10	10	5.0	0

Unit Cruise Statistics: WEATHERMAN U3 ROW

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	160.0	35.4	25.0	158.2	13.0	4.6	25,308	37.7	25.4
WH	20.0	141.4	100.0	152.6	0.0	0.0	3,052	141.4	100.0
RA	20.0	141.4	100.0	104.2	0.0	0.0	2,083	141.4	100.0
ALL	200.0	28.3	20.0	152.2	16.3	5.2	30,443	32.7	20.7

Unit Summary: WEATHERMAN U3 ROW

Sp	Status	Rx	N	D	DBH	BL	THT	BF Gross	BF Net	Defect %	TPA	BA	RD	MBF Net
DF	LIVE	CUT	8	ALL	20.5	93	125	27,443	25,308	7.8	69.8	160.0	35.3	12.7
RA	LIVE	CUT	1	ALL	13.0	54	69	2,083	2,083	0.0	21.7	20.0	5.5	1.0
WH	LIVE	CUT	1	ALL	21.0	90	113	3,176	3,052	3.9	8.3	20.0	4.4	1.5

Sp	Status	Rx	N	D	DBH	BL	THT	BF Gross	BF Net	Defect %	TPA	BA	RD	MBF Net
ALL	LIVE	CUT	10	ALL	19.2	84	112	32,703	30,443	6.9	99.8	200.0	45.2	15.2
ALL	ALL	ALL	10	ALL	19.2	84	112	32,703	30,443	6.9	99.8	200.0	45.2	15.2



Forest Practices Application/Notification Notice of Decision

FPA/N No: 2942412
 Effective Date: 5/22/2024
 Expiration Date: 5/22/2027
 Shut Down Zone: 651N ; .
 EARR Tax Credit: Eligible Non-eligible
 Reference: Weatherman Timber Sale
30-105537

Decision

- 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 Practices Application is disapproved for the reasons listed below.
- Withdrawn Applicant has withdrawn the Forest Practices Application/Notification (FPA/N).
- Closed All forest practices obligations are met.

FPA/N Classification

Class II Class III Class IVG Class IVS

Number of Years Granted on Multi-Year Request

4 years 5 years

Conditions on Approval/Reasons for Disapproval

No additional conditions.

Issued By: Dan Walters Region: Pacific Cascade Region

Title: Forest Practices Forester Date: 5/22/2024

Copies to: Landowner, Timber Owner, and Operator

Issued in person: LO TO OP By: *[Signature]* Date: 5/22/2024

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 RCW 76.09.205. 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
<u>Physical Address</u> 1111 Israel Road, SW Suite 301 Tumwater, WA 98501	<u>Physical Address</u> 1125 Washington Street, SE Olympia, WA 98504	<u>Physical Address</u> 601 Bond Rd Castle Rock WA 98611
<u>Mailing address</u> Post Office Box 40903 Olympia, WA 98504-0903	<u>Mailing Address</u> Post Office Box 40100 Olympia, WA 98504-0100	<u>Mailing Address</u> Post Office Box 280 Castle Rock, WA 98611-0280

Information regarding the Pollution Control Hearings Board can be found at: <https://eluh0.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.

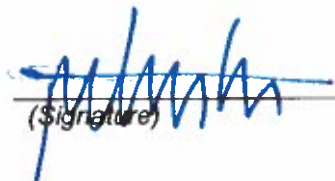
DNR Declaration of Mailing



I, Parvika Bhasin caused the Notice of Decision for FPA/N No. to be placed in the United States mail at Castle Rock, WA, postage paid. I declare under penalty of perjury of the laws of the State of Washington, that the foregoing is true and correct.

3/10/2024
(Date)

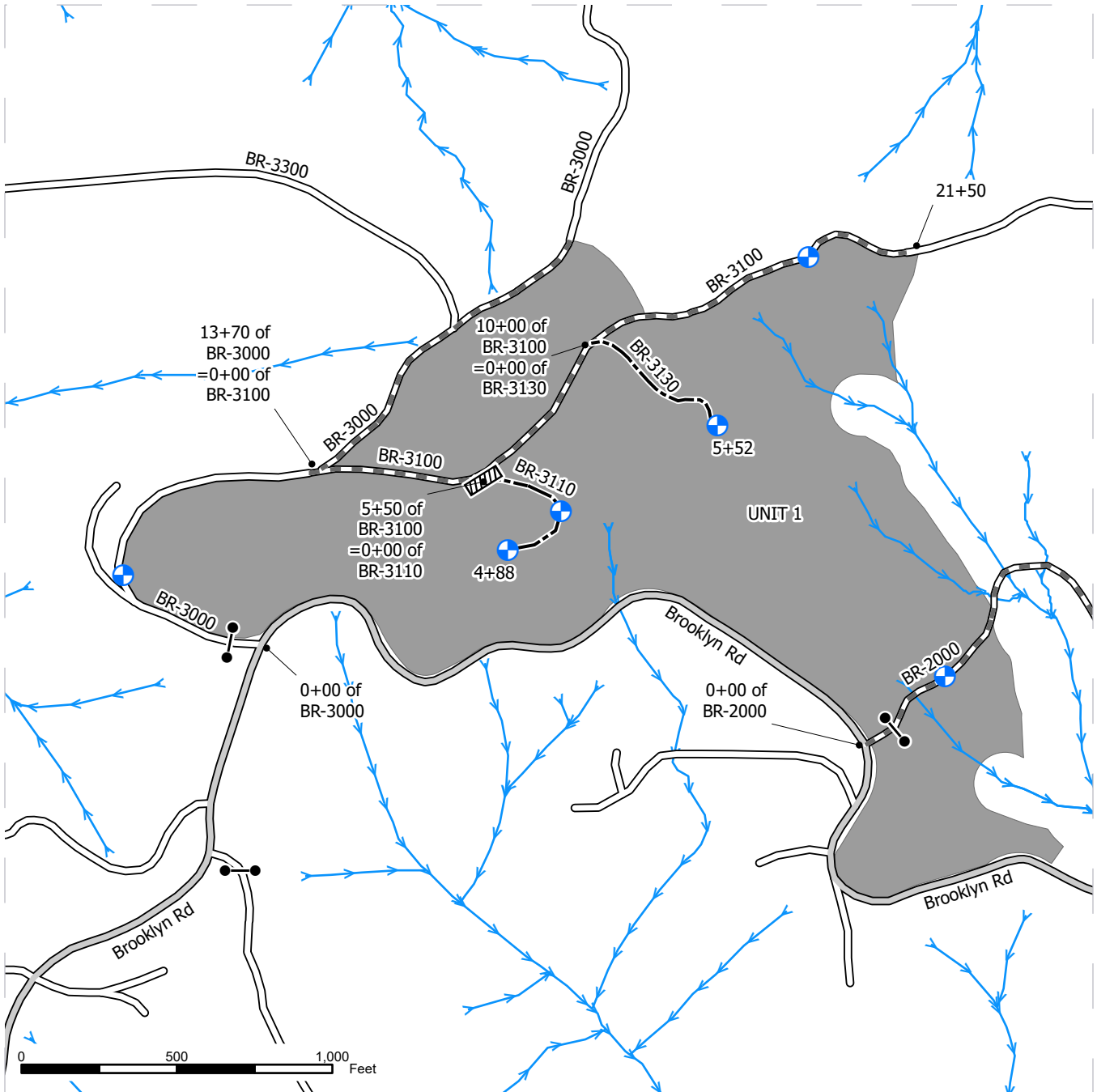
Castle Rock, WA
(City & State where signed)


(Signature)

ROAD PLAN MAP

SALE NAME: WEATHERMAN
 AGREEMENT#: 30-105537
 TOWNSHIP(S): T15R6W
 TRUST(S): Charitable/Educational/Penal & Reformatory Instit. (6), Common School and Indemnity (3)

REGION: Pacific Cascade Region
 COUNTY(S): Grays Harbor
 ELEVATION RGE: 680-1120

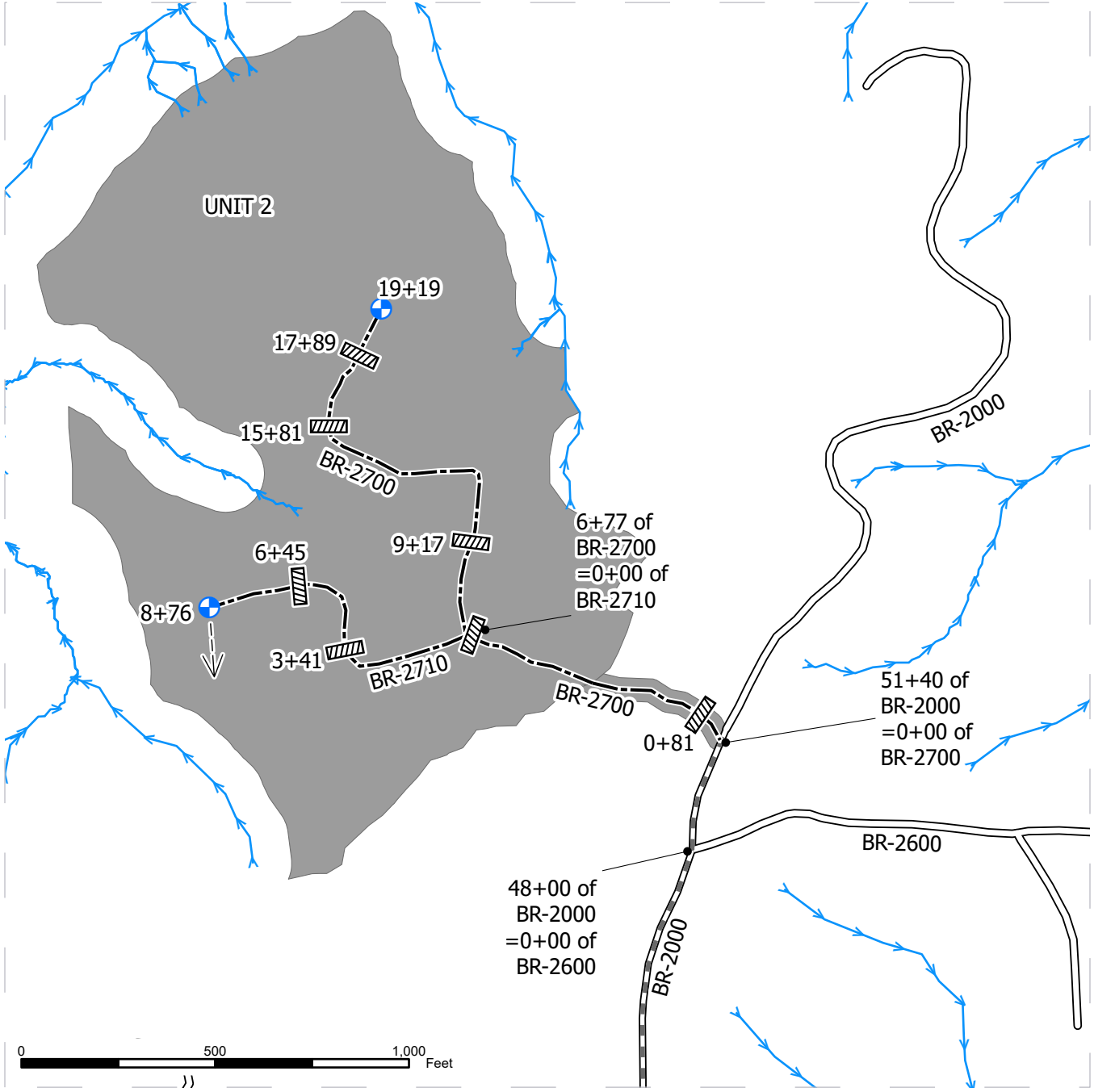


County Road	Culvert	Streams
Existing Roads	Gate (PCP 1-1)	
Required Pre-Haul Maintenance	Landing - Proposed	
Optional Construction	Harvest Type	

ROAD PLAN MAP

SALE NAME: WEATHERMAN
AGREEMENT#: 30-105537
TOWNSHIP(S): T15R6W
TRUST(S): Charitable/Educational/Penal & Reformatory Instit. (6), Common School and Indemnity (3)

REGION: Pacific Cascade Region
COUNTY(S): Grays Harbor
ELEVATION RGE: 680-1120



Existing Roads	Culvert	Harvest Type
Required Pre-Haul Maintenance	Landing - Proposed	Streams
Optional Construction	Ditchout	



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

AGREEMENT NO.: 30-105537

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 source development, 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>
BR-2000	0+00 to 51+40	Pre-haul Maintenance
BR-3000	13+70 to 24+70	Pre-haul Maintenance
BR-3100	0+00 to 21+50	Pre-haul Maintenance

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>
BR-2700	0+00 to 19+19	Construction
BR-2710	0+00 to 8+76	Construction
BR-3110	0+00 to 4+88	Construction
BR-3130	0+00 to 5+52	Construction

0-4 CONSTRUCTION

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

0-6 PRE-HAUL MAINTENANCE

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

<u>Road</u>	<u>Stations</u>	<u>Requirements</u>
BR-2000	0+00 to 51+40	Grade and compact existing road surface prior to rock application. Apply rock as shown on the ROCK LIST. Grade and compact the applied rock.
BR-3000	13+70 to 24+70	Grade and compact existing road surface prior to rock application. Apply rock as shown on the ROCK LIST. Grade and compact the applied rock.
BR-3100	0+00 to 21+50	Grade and compact existing road surface.

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.

<u>Tolerance Class</u>	<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

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.
- Stakes and orange flagging or painted trees for pre-haul maintenance.
- Clearing limits are marked by right of way tags outside of the unit boundaries.

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

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.

1-29 SEDIMENT RESTRICTION

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

1-30 CLOSURE TO PREVENT DAMAGE

In accordance with Contract Clause G-220.1 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 2 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 Contract 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.

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.

<u>Road</u>	<u>Stations</u>	<u>Requirements</u>
BR-2000	0+00 to 51+40	Grade, shape and compact existing road prior to rock application, apply rock, grade and compact.
BR-3000	13+70 to 24+70	Grade, shape and compact existing road prior to rock application, apply rock, grade and compact.
BR-3100	0+00 to 21+50	Grade, shape and compact existing road.

SECTION 3 – CLEARING, GRUBBING, AND DISPOSAL

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.

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 adjacent to the road shoulder 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 components of a tree that remain as by-products after the manufacture of logs, including but not limited to tree tops, branches, limbs, needles, leaves, and stumps that are larger than one cubic foot in volume within the grubbing and brushing area limits as shown on the TYPICAL SECTION SHEET and ROADSIDE BRUSHING DETAIL.

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.

3-23 PROHIBITED DISPOSAL AREAS

Purchaser shall not place organic debris in the following areas:

- Within 25 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.

SECTION 4 – EXCAVATION

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.
- Culverts at live stream crossings must be installed during pioneering operations prior to embankment.

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>Material Type</u>	<u>Excavation Slope Ratio</u>	<u>Excavation Slope Percent</u>
Common Earth (on side slopes up to 70%)	1:1	100
Common Earth (on slopes over 70%)	½:1	200
Fractured or loose rock	½:1	200
Hardpan or solid rock	¼:1	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>Material Type</u>	<u>Embankment Slope Ratio</u>	<u>Embankment Slope Percent</u>
Sandy Soils	2:1	50
Common Earth and Rounded Gravel	1½:1	67
Angular Rock	1¼:1	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.

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.

4-21 TURNOUTS

Purchaser shall construct turnouts as designated on the ROCK LIST. Location 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 and reconstruct 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 identified in the table below, 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.

<u>Road</u>	<u>Stations</u>	<u>Comments</u>
BR-2710	8+76	Left

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.

4-38 PROHIBITED WASTE DISPOSAL AREAS

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

- Within 25 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.

4-48 NATIVE MATERIAL

Native material consists of naturally occurring material that is free of organic debris, trash, and rocks greater than 6 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.

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 and reconstructed subgrades in accordance with the COMPACTION LIST by routing equipment over the entire width, except ditch.

4-63 EXISTING SURFACE COMPACTION

Purchaser shall compact maintained road surfaces in accordance with the COMPACTION LIST by routing equipment over the entire width.

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.

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.

The type of energy dissipater and the amount of material 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.

5-33 NATIVE SURFACE ROADS

If overwintered, native surface roads must be waterbarred by October 1. Purchaser shall construct waterbars according to the attached NON-DRIVABLE WATERBAR DETAIL at a maximum spacing that will produce a vertical distance of no more than 10 feet between waterbars or between natural drainage paths, and with a maximum spacing of 300 feet.

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 a 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.

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.

All 1 ¼" MINUS CRUSHED ROCK shall meet a minimum Degradation value of 15% and a maximum LA Abrasion value of 25%.

Possible Testing Facility	Location
Materials Testing and Consulting	Olympia, Washington
WSDOT State Materials Laboratory	Tumwater, Washington

6-22 FRACTURE REQUIREMENT FOR ROCK

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 provide 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 ¼-INCH MINUS CRUSHED ROCK

% Passing 1 ¼" square sieve	100%
% Passing 5/8" square sieve	50 - 80%
% Passing U.S. #4 sieve	30 - 50%
% Passing U.S. #40 sieve	3 - 18%
% Passing U.S. #200 sieve	5%

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

6-57 ROCK MEASUREMENT BY TRUCK SCALE

Measurement of the spot, landing and energy dissipater rock is on scaled truck weight. Purchaser shall provide scaled weight using a commercial scale. Purchaser shall provide the Contract Administrator with all scale sheets.

6-59 WEIGHT PER CUBIC YARD MEASUREMENT

At the start of operations, a weight per cubic yard will be calculated as follows:

- a) Measure the box of a truck to be used for rock haul.
- b) Weigh the truck for tare weight at a state certified platform scale.
- c) Flatten off a load of rock in the truck and calculate its exact volume in cubic yards.
- d) Weigh the truck for gross weight at a state certified platform scale.
- e) Divide the net weight of the load by the volume calculated in step c.

Calculated conversion factors will be valid for no more than 30 days or until rock density or moisture changes significantly, as determined by the Contract Administrator.

6-70 APPROVAL BEFORE ROCK APPLICATION

Purchaser shall obtain written approval from the Contract Administrator for SUBGRADE CONSTRUCTION AND DRAINAGE INSTALLATION before rock application.

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, 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, the FOREST ACCESS ROAD MAINTENANCE SPECIFICATIONS, or other conditions of the approved plan.

<u>Road</u>	<u>Stations</u>
BR-2710	0+00 to 8+76
BR-3110	0+00 to 4+88
BR-3130	0+00 to 5+52

SECTION 7 – STRUCTURES

7-70 GATE CLOSURE

On the following roads, Purchaser shall keep gates closed and locked except during periods of haul. All gates that remain open during haul must be locked or securely fastened in the open position. All gates must be closed at termination of use.

<u>Road</u>	<u>Station</u>
BR-2000	1+20
BR-3000	1+00

SECTION 8 – EROSION CONTROL

8-1 SEDIMENT CONTROL STRUCTURES

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>	<u>Qty (lbs)*</u>	<u>Type</u>
BR-2700	0+00 to 19+19	60	Seed
BR-2710	0+00 to 8+76	27	Seed
BR-3110	0+00 to 4+88	15	Seed
BR-3130	0+00 to 5+52	17	Seed
	Total:	119	

*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.

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.

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

SECTION 9 – POST-HAUL ROAD WORK

9-3 CULVERT MATERIAL REMOVED FROM STATE LAND

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

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

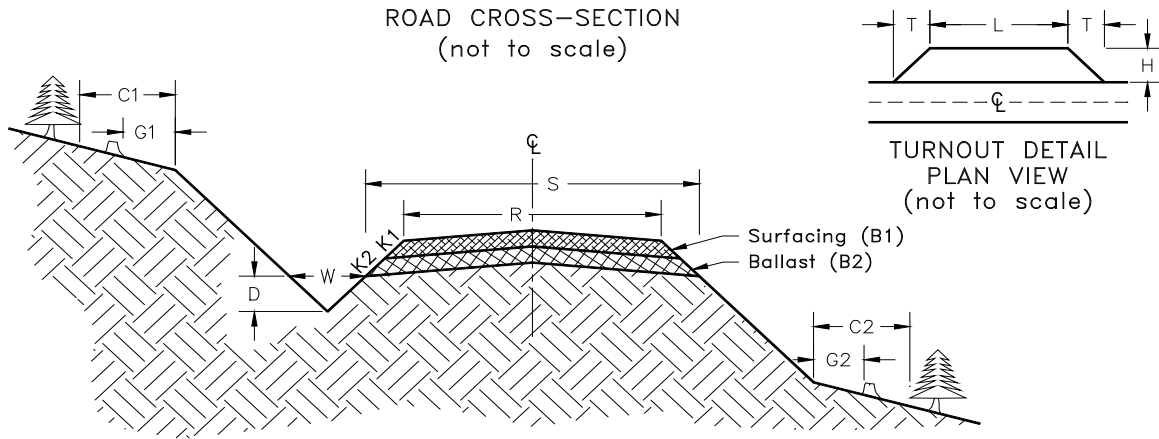
10-17 CORRUGATED PLASTIC CULVERT

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

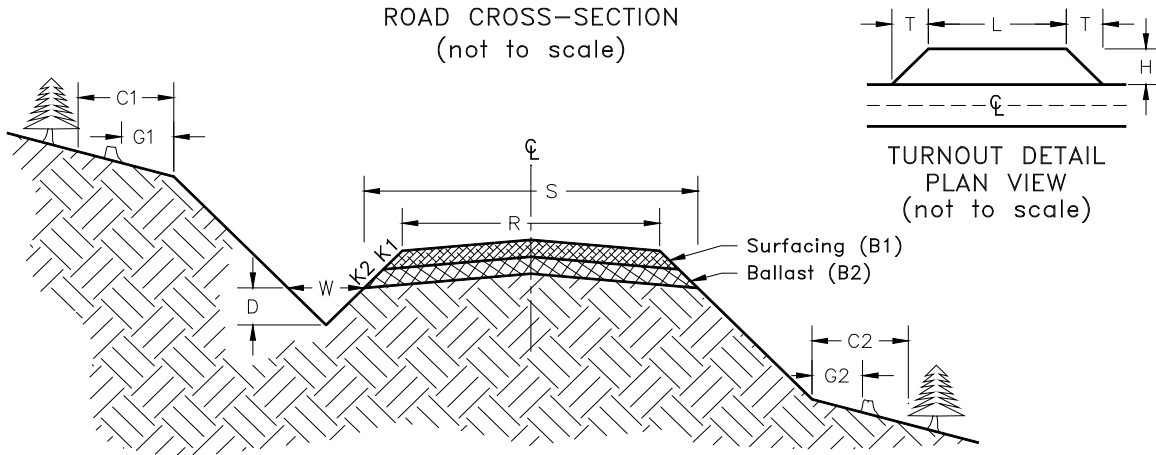
Plastic coupling and end bands must meet the AASHTO specification designated for the culvert. Only fittings supplied or recommended by the culvert manufacturer may be used. Couplings must be split coupling band. Split coupling bands must have a minimum of four corrugations, two on each side of the pipe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

TYPICAL SECTION SHEET



Road Number	From Station	To Station	Tolerance Class	Subgrade Width ft	Road Width ft	Ditch Width ft	Ditch Depth ft	Crown @ CL in	Grubbing Limits ft		Clearing Limits ft	
									G1	G2	C1	C2
BR-2000	0+00	51+40	A	-	12	3	1	4	-	-	-	-
BR-2700	0+00	19+19	C	16	12	3	1	4	5	5	10	10
BR-2710	0+00	8+76	C	16	12	3	1	4	2	2	5	5
BR-3000	13+70	24+70	A	-	12	3	1	4	-	-	-	-
BR-3100	0+00	21+50	A	-	12	3	1	4	-	-	-	-
BR-3110	0+00	4+88	C	16	12	3	1	4	2	2	5	5
BR-3130	0+00	5+52	C	16	12	3	1	4	2	2	5	5

ROCK LIST



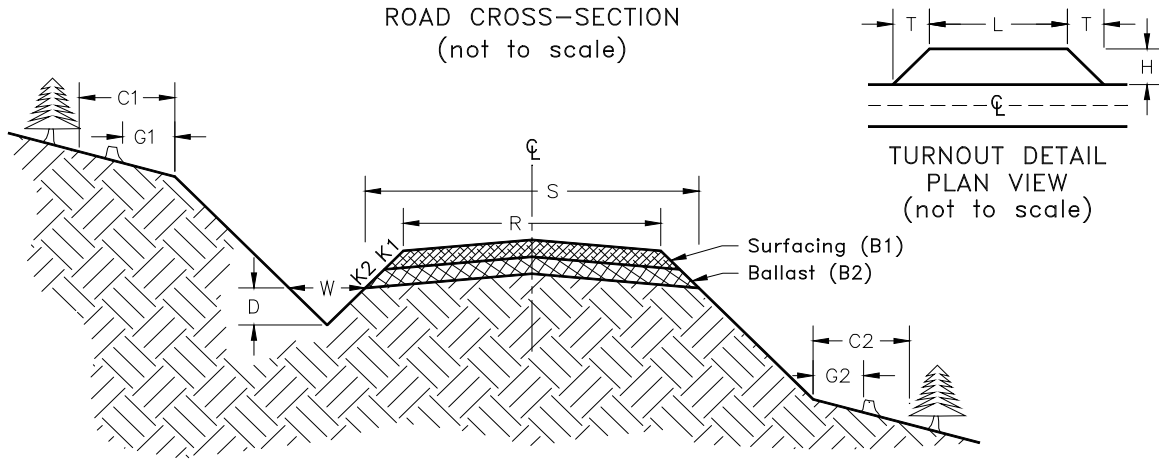
4-INCH MINUS CRUSHED

Road Number	From Station	To Station	Rock Slope	Compacted Rock Depth (in)	C.Y. per Station or Unit	# of Stations or Units	C.Y. Subtotal	Rock Source	Turnout		
									Length	Width	Taper
			K2	B2				Commercial	L (ft)	H (ft)	T (ft)
BR-2700	0+00	19+19	1 1/2:1	15	81	19.19	1554		40	10	25
	Turnarounds				43.5	2	87				
	Turnouts				23	1	23				
	Curve Widening						54				
	Junctions				15	1	15				
Landings		70	1	70							
BR-2710	* 0+00	8+76	1 1/2:1	15	81	8.76	710				
	* Turnarounds				43	1	43				
	* Curve Widening						25				
	* Junctions				15	1	15				
	* Landings				70	1	70				
BR-3110	* 0+00	4+88	1 1/2:1	15	81	4.88	395				
	* Curve Widening						14				
	* Junctions				15	1	15				
	* Landings				70	1	70				
BR-3130	* 0+00	5+52	1 1/2:1	15	81	5.52	447				
	* Turnarounds				43	1	43				
	* Curve Widening						16				
	* Junctions				15	1	15				
	* Landings				70	1	70				

*Optional Rock in accordance with 6-75

REQUIRED 4-INCH MINUS CRUSHED: 1803 CY
 OPTIONAL 4-INCH MINUS CRUSHED: 1948 CY
 TOTAL 4-INCH MINUS CRUSHED: 3751 CY

ROCK LIST

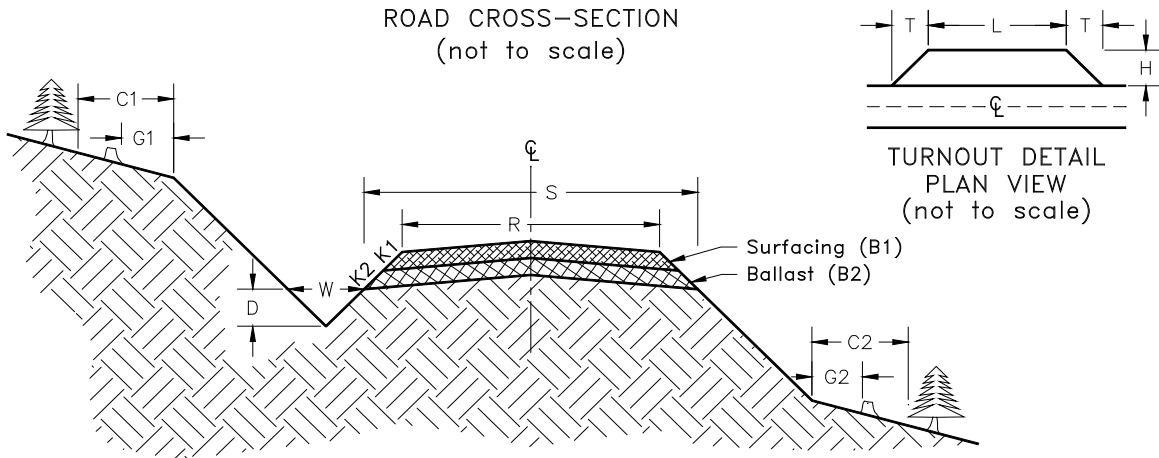


2 1/2-INCH MINUS CRUSHED

Road Number	From Station	To Station	Rock Slope	Compacted Rock Depth (in)	C.Y. per Station or Unit	# of Stations or Units	C.Y. Subtotal	Rock Source	Turnout		
									Length L (ft)	Width H (ft)	Taper T (ft)
			K1	B1				Commercial			
BR-2000	34+00	51+40	1 1/2:1	8	41	17.40	713				
	Turnarounds				22	2	44				
	Turnouts				12	1	12		40	10	25
	Curve Widening						21				
BR-3000	13+70	24+70	1 1/2:1	6	30	11.00	330				
	Turnarounds				16	1	16				
	Turnouts				9	1	9		40	10	25
	Curve Widening						10				
	Junctions				6	1	6				

REQUIRED 2 1/2-INCH MINUS CRUSHED: 1161 CY

ROCK LIST



1 1/4-INCH MINUS CRUSHED

Road Number	From Station	To Station	Rock Slope	Compacted Rock Depth (in)	C.Y. per Station or Unit	# of Stations or Units	C.Y. Subtotal	Rock Source	Turnout		
									Length L (ft)	Width H (ft)	Taper T (ft)
BR-2000	Spot Rock (0+00 to 34+00)		K2	B2			250	Commercial			

REQUIRED 1 1/4-INCH MINUS CRUSHED: 250 CY

QUARRY SPALLS

Road Number	CY
BR-2700	5
BR-2710	2
BR-3110	1
TOTAL QUARRY SPALLS:	8 CY

CULVERT LIST

Road Number	Location	Culvert			Armoring (C.Y.)			Backfill	Bedding	Inlet	Remarks
		Dia (In)	Length	Type	Inlet	Outlet	Type	Material	Material	Marker	
BR-2700	0+81	18	40	PD	0.5	0.5	QS	NT	NT	Y	
	6+77	18	30	PD	0.5	0.5	QS	NT	NT	Y	
	9+17	18	30	PD	0.5	0.5	QS	NT	NT	Y	
	15+81	18	30	PD	0.5	0.5	QS	NT	NT	Y	
	17+89	18	30	PD	0.5	0.5	QS	NT	NT	Y	
BR-2710	3+41	18	30	PD	0.5	0.5	QS	NT	NT	Y	
	6+45	18	30	PD	0.5	0.5	QS	NT	NT	Y	
BR-3110	0+00	18	30	PD	0.5	0.5	QS	NT	NT	Y	

Key:

- QS - Quarry Spalls
- NT - Native (bank run)
- CR - 3 Inch Minus Crushed
- LL - Light Loose Riprap
- PD - Polyethylene Pipe Double Wall
- PSDS - Polyethylene Downspout Single Wall

COMPACTION LIST

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

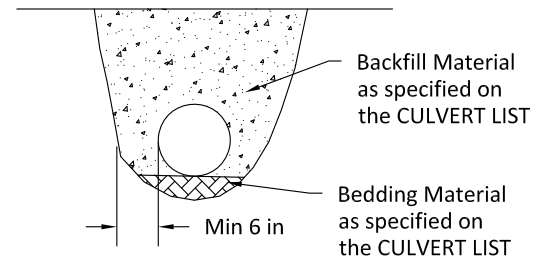
CULVERT AND DRAINAGE SPECIFICATION DETAIL
PAGE 1 OF 2

INSTALLATION REQUIREMENTS:

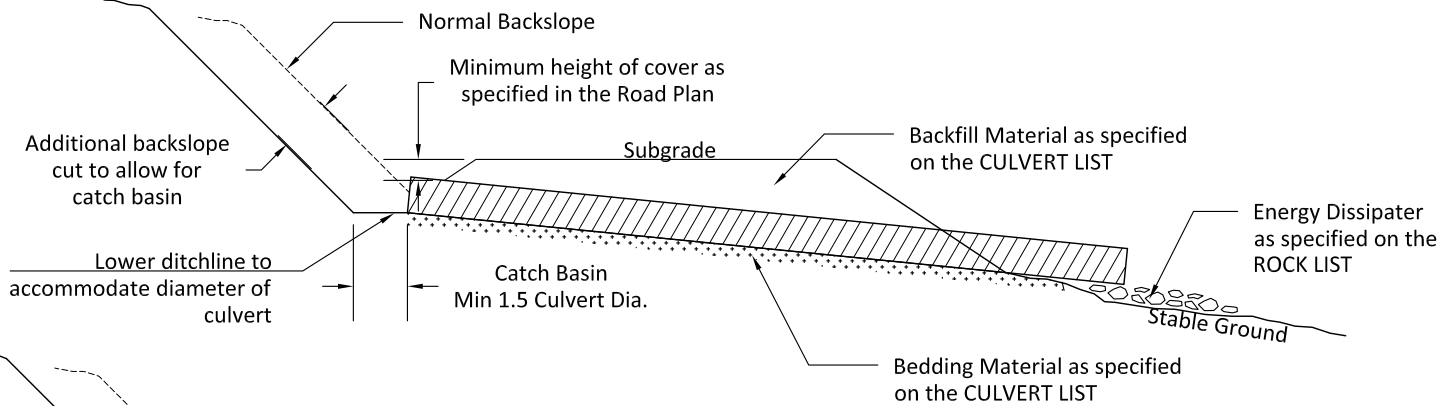
1. Proper preparation of foundation and placement of any required bedding material shall precede the installation of all culverts. This includes necessary leveling of the native trench bottom and compaction of required bedding material to form a uniform, dense, unyielding base. The pipe must be uniformly supported along the barrel.
2. Backfill material shall be compacted under the culvert haunches, around the sides, and above the culvert in accordance with the COMPACTION LIST.

ALL DRAWINGS ARE NOT TO SCALE

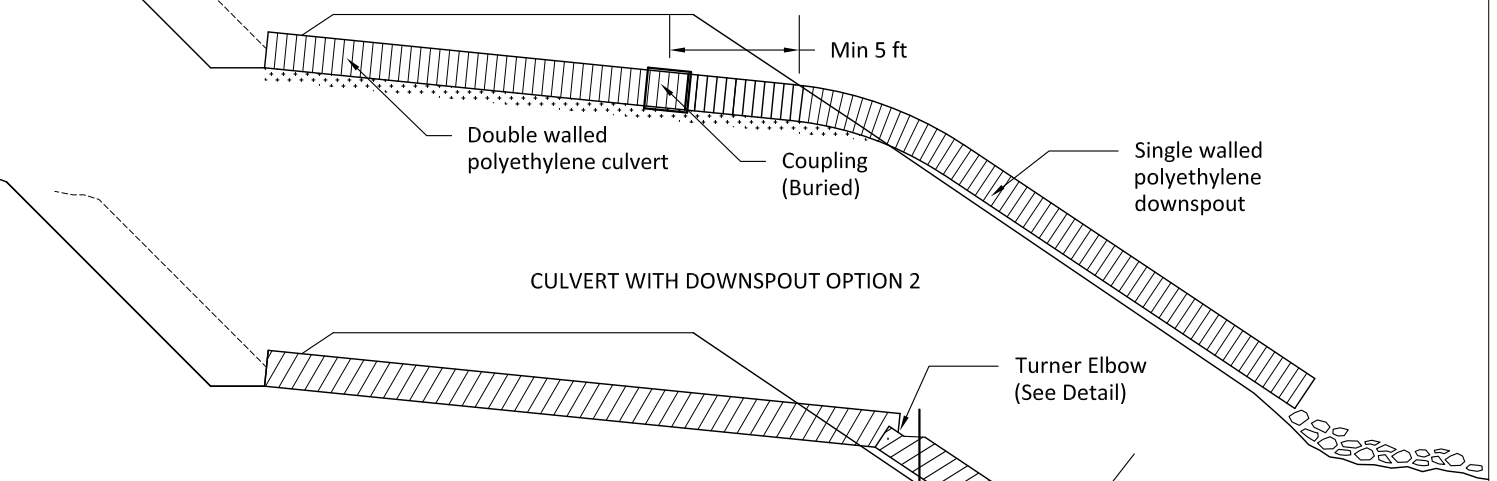
CROSS SECTION



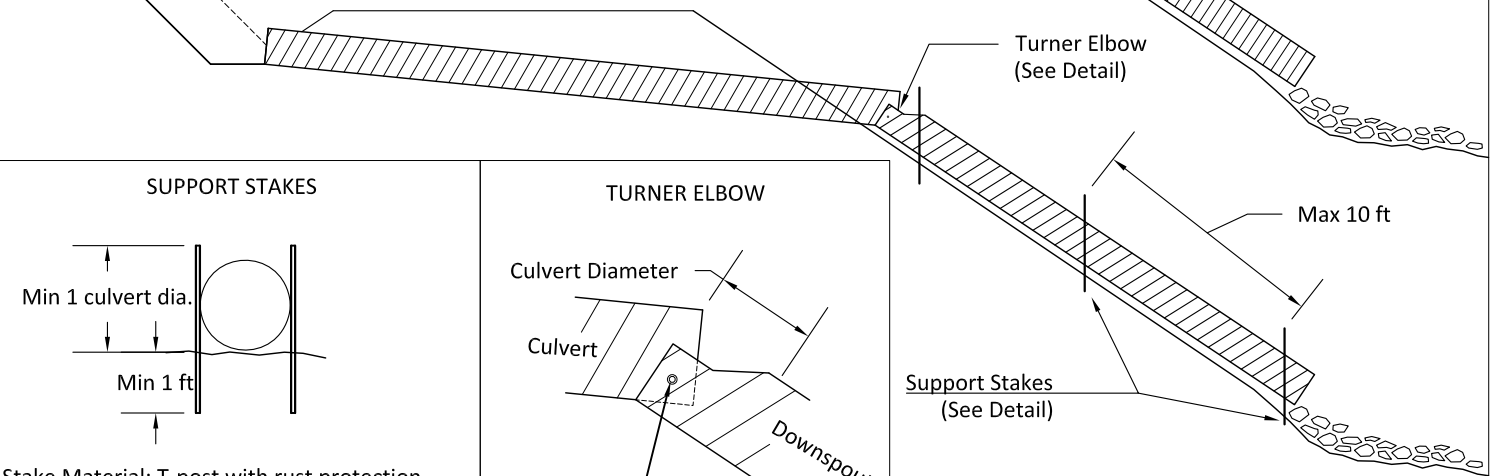
CULVERT PROFILE (TYPICAL)



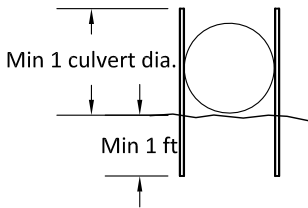
CULVERT WITH DOWNSPOUT OPTION 1



CULVERT WITH DOWNSPOUT OPTION 2

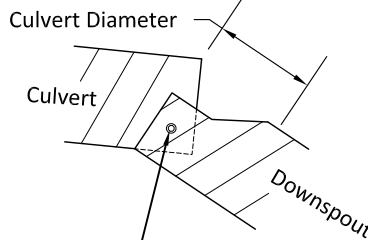


SUPPORT STAKES



Stake Material: T-post with rust protection coating.
Connections: Bolt support stakes to the culvert with $\frac{5}{8}$ " u-bolts, with washers on both the inside and outside of the culvert.
Alternative staking methods may be approved, in writing, by the Contract Administrator.

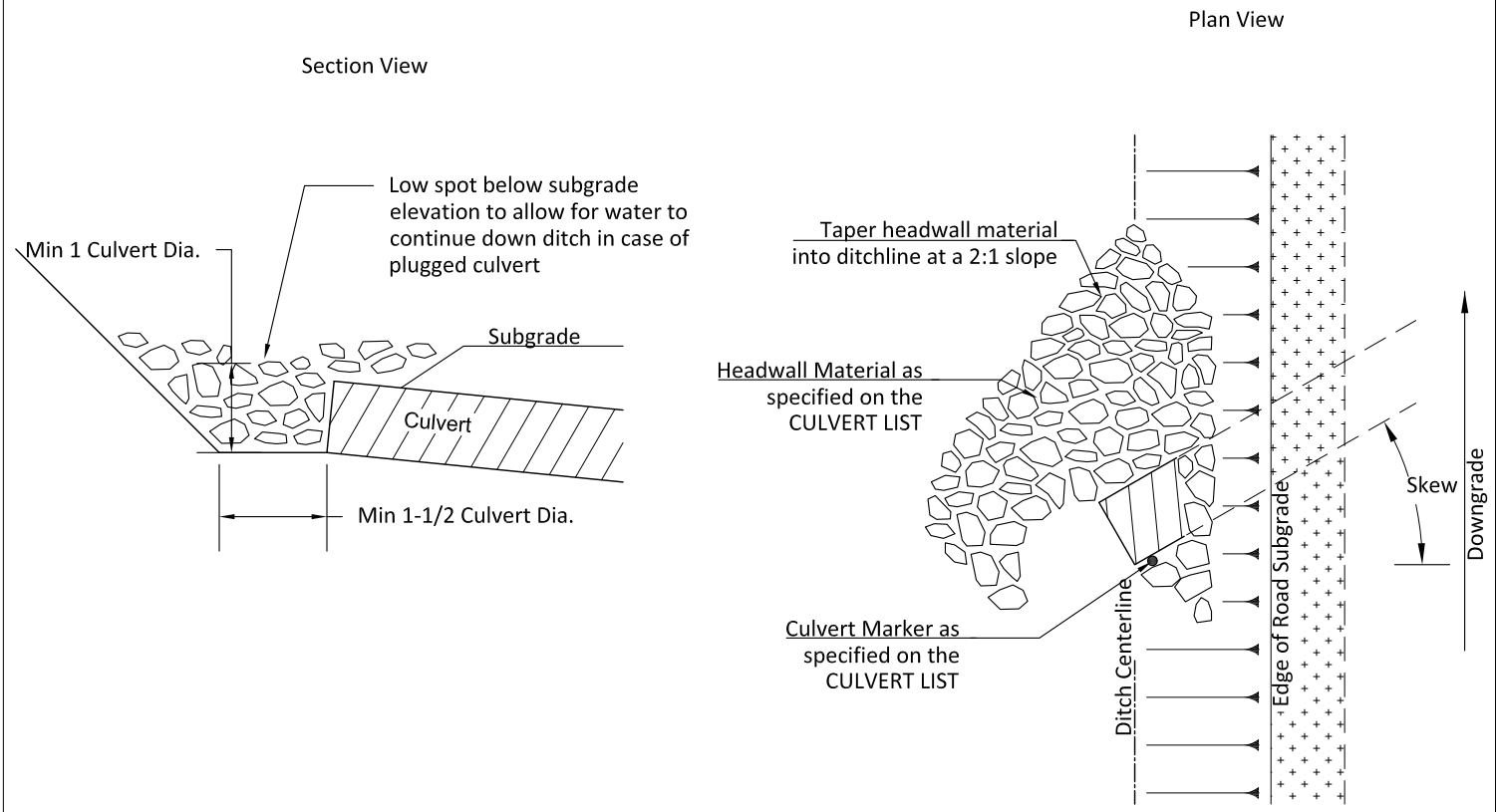
TURNER ELBOW



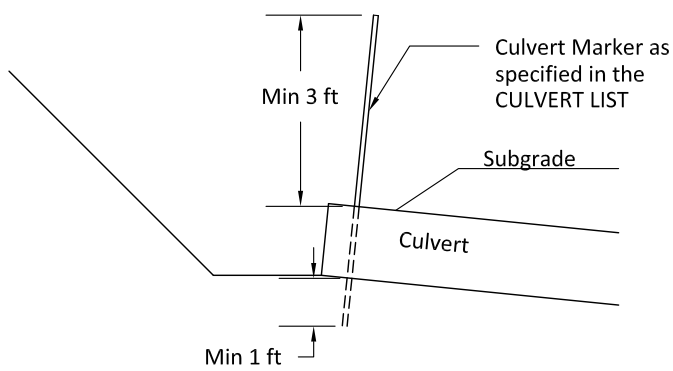
Bolted with $\frac{5}{8}$ " galvanized bolts and washers (both sides)
Downspout must be 6 inches larger in diameter than the culvert.

CULVERT AND DRAINAGE SPECIFICATION DETAIL
PAGE 2 OF 2

HEADWALLS

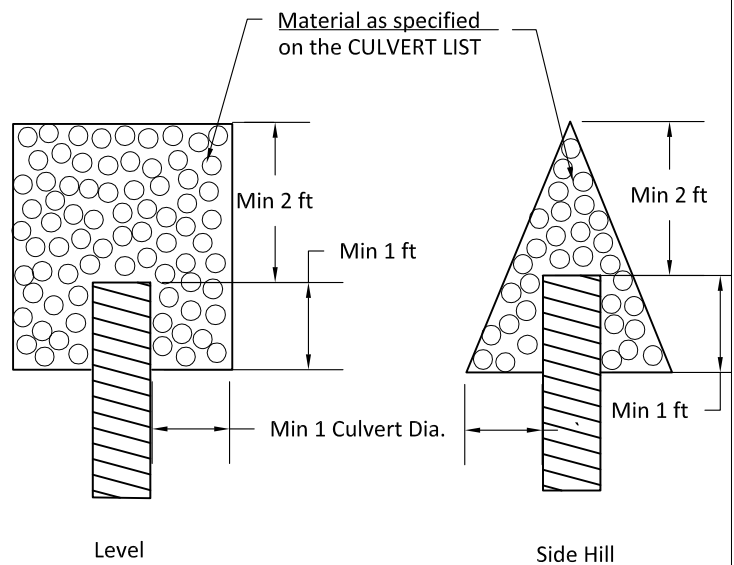


CULVERT MARKERS



Culvert Marker Material: 1 Inch I.D., Schedule 40 PVC Pipe, White. Marker must be capped on the top.
 Culvert Marker Placement: Place on uphill side of culvert, between corrugations if possible.
 Alternative culvert marker types may be approved, in writing, by the Contract Administrator.

ENERGY DISSIPATORS



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.

FOREST ACCESS ROAD MAINTENANCE SPECIFICATIONS

Page 2 of 2

Preventative Maintenance

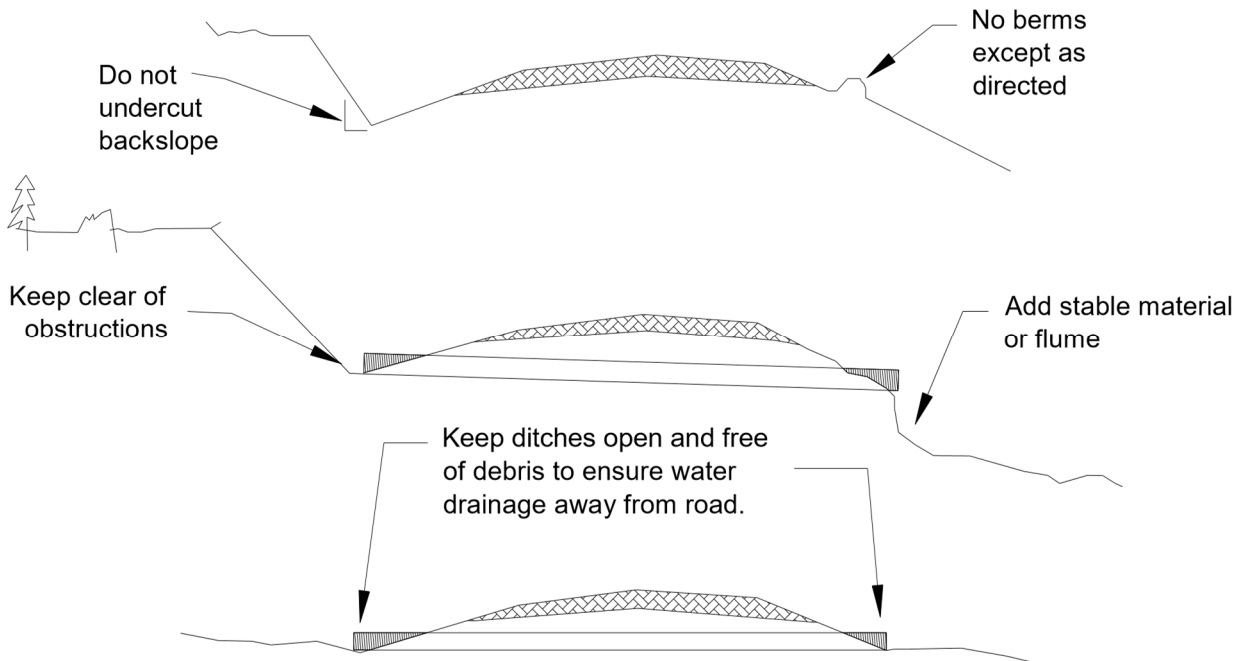
- Perform preventative maintenance work to safeguard against storm damage, such as blading to ensure correct runoff, ditch and culvert cleaning, and waterbar maintenance.

Termination of Use or End of Season

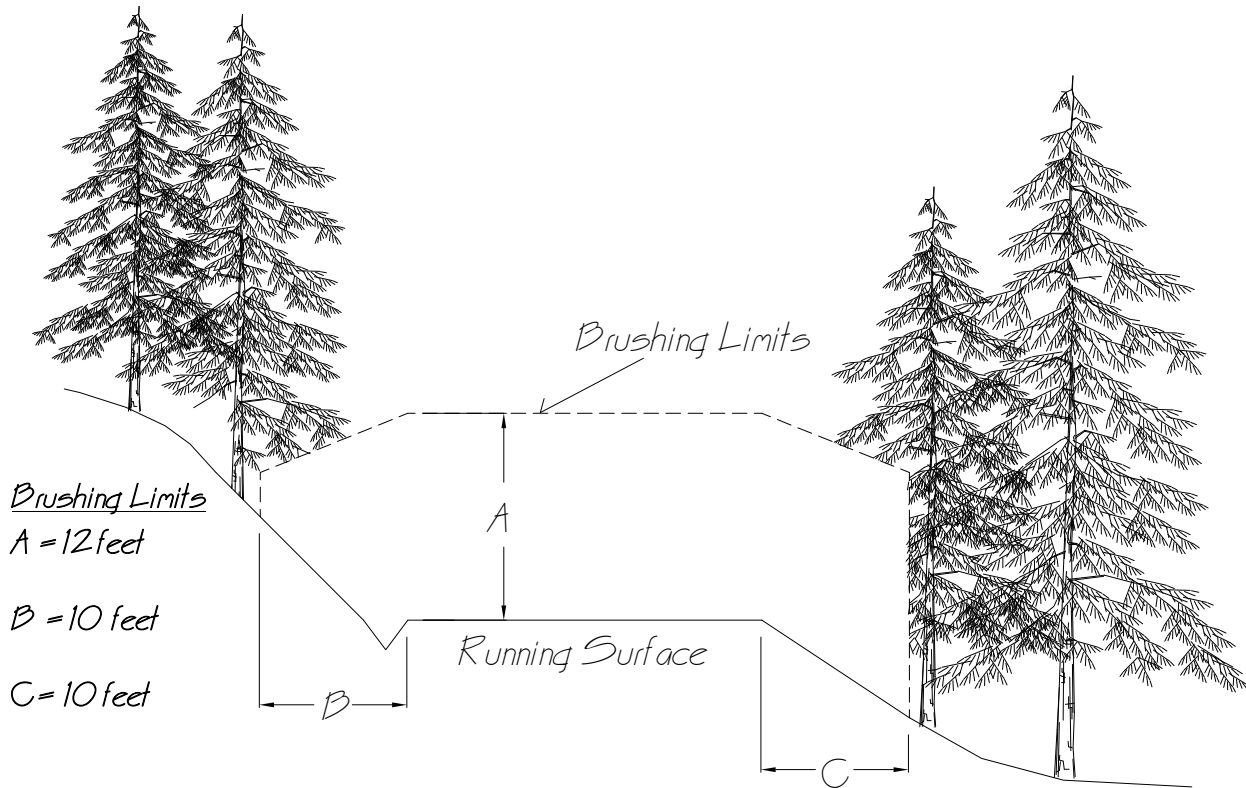
- At the conclusion of logging operations, ensure all conditions of these specifications have been met.

Debris

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



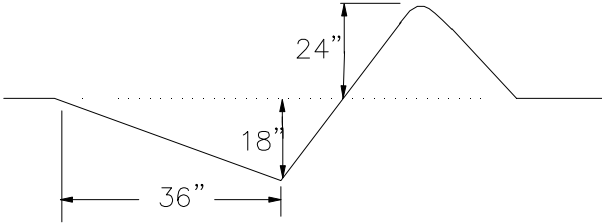
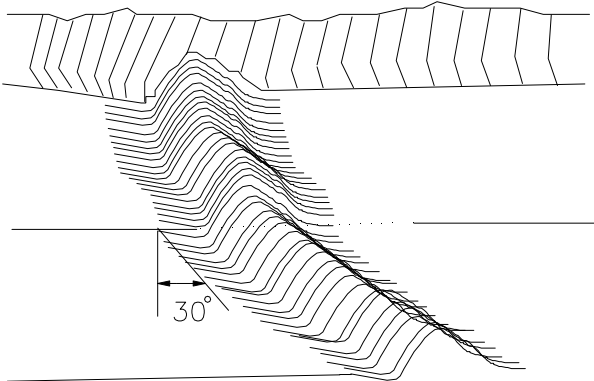
ROADSIDE BRUSHING DETAIL



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

NON-DRIVABLE WATER BAR DETAIL



SUMMARY - Road Development Costs

REGION: Pacific Cascade

DISTRICT: Lewis

SALE/PROJECT NAME: WEATHERMAN

AGREEMENT #: 30-105537

ROAD NUMBERS: Optional: BR-2700, BR-2710, BR-3110, BR-3130

Required: BR-2000, BR-3000, BR-3100

ROAD STANDARD:	Construction	Reconstruction	Maintenance
NUMBER OF STATIONS:	38.35	0.00	83.90
CLEARING & GRUBBING, EXCAVATION AND FILL, MISC.:	\$20,961.37	\$0.00	\$2,345.01
ROAD ROCK:			
Optional:	\$60,185.43	\$0.00	\$0.00
Required:	\$56,010.24	\$0.00	\$44,676.18
Total:	\$116,195.67	\$0.00	\$44,676.18
STOCKPILE:	-	-	\$0.00
CULVERTS AND FLUMES:	\$7,689.00	\$0.00	\$0.00
STRUCTURES:	-	-	-
MOBILIZATION:	\$6,571.25	\$0.00	\$735.15
TOTAL COSTS:	\$151,417.29	\$0.00	\$47,756.34
COST PER STATION:	\$3,948	#DIV/0!	\$569
ROAD DEACTIVATION & ABANDONMENT COSTS:	\$0.00	\$0.00	\$0

10% OVERHEAD AND GENERAL EXPENSE =	\$19,917.36
TOTAL (All Roads) =	\$219,090.99
TOTAL (Minus Optional Rock) =	\$158,905.56
SALE VOLUME MBF =	4,554
TOTAL \$/MBF =	\$48.11
TOTAL \$/MBF (Minus Optional Rock) =	\$34.89

Profit and Risk costs are accounted on an individual basis.

SUMMARY OF ROAD

Sale: WEATHERMAN

Road: BR-2000

Required
Pre-Haul Maintenance- 51+40 stations
0.97 miles

Required
Reconstruction - 0+00 stations
0.00 miles

Required
Construction - 0+00 stations
0.00 miles

Required Abandonment- 0+00 stations
0.00 miles

Optional
Reconstruction - 0+00 stations
0.00 miles

Optional
Construction - 0+00 stations
0.00 miles

PRE-HAUL MAINTENANCE

CLEARING MISC.

Grade and shape existing road surface -	51.40	stations @	\$18.25	per station	\$938.05
Roll shaped road surface w/ vibratory roller prior to rocking -	51.40	stations @	\$9.70	per station	\$498.58
TOTAL CLEARING, GRUBBING, EXCAVATION, FILL, and MISC.					\$1,436.63

ROCK

34+00 to	51+40	790	cy. of	2.5" Crushed	@	\$31.77	per c.y.=	\$25,098.30
Spot Rock	See Rock List	250	cy. of	1.5" Crushed	@	\$31.15	per c.y.=	\$7,787.50
TOTAL ROCK								\$32,885.80

SUBTOTAL **\$34,322.43**

MOBILIZATION

SUBTOTAL **\$450.37**

OVERHEAD & GENERAL EXPENSES

10%

SUBTOTAL **\$3,477.28**

Optional Rock? NO

TOTAL \$38,250.08

COST PER STATION \$744.16

SUMMARY OF ROAD

Sale:	WEATHERMAN		Road: BR-2700
Required Pre-Haul Maintenance-	0+00 0.00	stations miles	Required Reconstruction -
			0+00 0.00
			stations miles
Required Abandonment-	0+00 0.00	stations miles	Optional Reconstruction -
			0+00 0.00
			stations miles
			Required Construction -
			0+00 0.00
			stations miles
			Optional Construction -
			19+19 0.36
			stations miles

CONSTRUCTION

CLEARING/GRUBBING

Scattering Organic Debris 19.19 sta @ \$280.00 per sta \$5,373.20

EXCAVATION

Road Construction Earthwork 19.19 sta. @ \$152.17 per sta. = \$2,920.14
 Grade and shape subgrade - 19.19 stations @ \$14.60 per station \$280.17

MISC.

Roll subgrade w/ vibratory roller prior to rocking - 19.19 stations @ \$12.12 per station \$232.58
 Construct turnouts @ sta. - 14+13 1.00 @ \$134.62 each \$134.62
 Construct turnaround @ sta. - 3+40, 17+08 2.00 @ \$134.62 each \$269.24
 Construct landing - 1.00 @ \$538.46 each \$538.46
 Grass seed and fertilize - 60.00 lbs @ \$4.00 per lbs \$240.00

TOTAL CLEARING, GRUBBING, EXCAVATION, FILL, and MISC. **\$9,988.41**

CULVERTS - MATERIALS & INSTALLATION

<u>Culverts</u>					
160	LF of 18"	\$4,880.00		0	LF of 24" \$0.00
		\$4,880.00			\$0.00
<u>Culvert Stakes & Markers</u>					
5 markers		\$40.00			
		\$40.00			TOTAL CULVERTS
					\$4,920.00

ROCK

0+00 to	19+19	1,803	cy. of	4" Minus	@	\$30.93	per c.y.=	\$55,766.79	
Energy Dissipator	See Culvert List	5	cy. of	Quarry Spalls	@	\$48.69	per c.y.=	\$243.45	
								TOTAL ROCK	\$56,010.24

TOTAL ADDITIONAL REQUIREMENTS **\$0.00**

SUBTOTAL **\$70,918.65**

MOBILIZATION

SUBTOTAL **\$3,131.30**

OVERHEAD & GENERAL EXPENSES

10% SUBTOTAL **\$7,405.00**

TOTAL \$81,454.95

Optional Rock? NO

COST PER STATION \$4,244.66

SUMMARY OF ROAD

Sale: **WEATHERMAN**

Road: **BR-2710**

Required Pre-Haul Maintenance- 0+00 stations 0.00 miles	Required Reconstruction - 0+00 stations 0.00 miles	Required Construction - 0+00 stations 0.00 miles
Required Abandonment- 0+00 stations 0.00 miles	Optional Reconstruction - 0+00 stations 0.00 miles	Optional Construction - 8+76 stations 0.17 miles

CONSTRUCTION

CLEARING/GRUBBING

Scattering Organic Debris 8.76 sta @ \$280.00 per sta \$2,452.80

EXCAVATION

Road Construction Earthwork 8.76 sta. @ \$152.17 per sta. = \$1,333.01
 Construct ditchouts - 8+76 1.00 @ \$60.00 each \$60.00
 Grade and shape subgrade - 8.76 stations @ \$14.60 per station \$127.90

MISC.

Roll subgrade w/ vibratory roller prior to rocking - 8.76 stations @ \$12.12 per station \$106.17
 Construct turnaround @ sta. - 7+15 1.00 @ \$134.62 each \$134.62
 Construct landing - 1.00 @ \$538.46 each \$538.46
 Grass seed and fertilize - 27.00 lbs @ \$4.00 per lbs \$108.00

TOTAL CLEARING, GRUBBING, EXCAVATION, FILL, and MISC. **\$4,860.96**

CULVERTS - MATERIALS & INSTALLATION

<u>Culverts</u>		60	LF of 18"	<u>\$1,830.00</u>	0	LF of 24"	\$0.00
				\$1,830.00			\$0.00
<u>Culvert Stakes & Markers</u>		2	markers	<u>\$16.00</u>			
				\$16.00			
						<u>TOTAL CULVERTS</u>	\$1,846.00

ROCK

0+00 to	8+76	863	cy. of	4" Minus	@	\$30.97	per c.y.=	\$26,727.11
Energy Dissipator	0+00	2	cy. of	Quarry Spalls	@	\$47.60	per c.y.=	<u>\$95.20</u>
								<u>TOTAL ROCK</u>
								\$26,822.31

SUBTOTAL **\$33,529.27**

MOBILIZATION

SUBTOTAL **\$1,523.88**

OVERHEAD & GENERAL EXPENSES

10% SUBTOTAL **\$3,505.32**

TOTAL \$38,558.47

Optional Rock? YES

COST PER STATION \$4,401.65

SUMMARY OF ROAD

Sale: WEATHERMAN

Road: BR-3000

Required
Pre-Haul Maintenance- 11+00 stations
0.21 miles

Required
Reconstruction - 0+00 stations
0.00 miles

Required
Construction - 0+00 stations
0.00 miles

Required Abandonment- 0+00 stations
0.00 miles

Optional
Reconstruction - 0+00 stations
0.00 miles

Optional
Construction - 0+00 stations
0.00 miles

PRE-HAUL MAINTENANCE

MISC.

Grade and shape existing road surface -	11.00	stations @	\$18.25	per station	\$200.75	
Roll shaped road surface w/ vibratory roller prior to rocking -	11.00	stations @	\$9.70	per station	\$106.70	
			TOTAL CLEARING, GRUBBING, EXCAVATION, FILL, and MISC.			\$307.45

ROCK

13+70	to	24+70	371	cy. of	2.5" Crushed	@	\$31.78	per c.y.=	\$11,790.38	
									TOTAL ROCK	\$11,790.38

SUBTOTAL **\$12,097.83**

MOBILIZATION

SUBTOTAL **\$96.38**

OVERHEAD & GENERAL EXPENSES

SUBTOTAL **\$1,219.42**

Optional Rock? NO

TOTAL \$13,413.63

COST PER STATION \$1,219.42

SUMMARY OF ROAD

Sale: WEATHERMAN

Road: BR-3110

Required Pre-Haul Maintenance-	0+00 0.00	stations miles
Required Abandonment-	0+00 0.00	stations miles

Required Reconstruction -	0+00 0.00	stations miles
Optional Reconstruction -	0+00 0.00	stations miles

Required Construction -	0+00 0.00	stations miles
Optional Construction -	4+88 0.09	stations miles

CONSTRUCTION

CLEARING/GRUBBING

Scattering Organic Debris 4.88 sta @ \$280.00 per sta \$1,366.40

EXCAVATION

Road Construction Earthwork 4.88 sta. @ \$152.17 per sta. = \$742.59
 Grade and shape subgrade - 4.88 stations @ \$14.60 per station \$71.25

MISC.

Roll subgrade w/ vibratory roller prior to rocking - 4.88 stations @ \$12.12 per station \$59.15
 Construct landing - 1.00 @ \$538.46 each \$538.46
 Grass seed and fertilize - 15.00 lbs @ \$4.00 per lbs \$60.00

TOTAL CLEARING, GRUBBING, EXCAVATION, FILL, and MISC. **\$2,837.85**

CULVERTS - MATERIALS & INSTALLATION

<u>Culverts</u>					
30	LF of 18"	\$915.00	0	LF of 24"	\$0.00
		\$915.00			\$0.00
<u>Culvert Stakes & Markers</u>					
1	markers	\$8.00			
		\$8.00			
TOTAL CULVERTS					\$923.00

ROCK

0+00 to 4+88 494 cy. of 4" Minus @ \$30.65 per c.y.= \$15,141.10
 Energy Dissipator See Culvert List 1 cy. of Quarry Spalls @ \$48.77 per c.y.= \$48.77

TOTAL ROCK **\$15,189.87**

SUBTOTAL **\$18,950.72**

MOBILIZATION

SUBTOTAL **\$889.65**

OVERHEAD & GENERAL EXPENSES

10% SUBTOTAL **\$1,984.04**

TOTAL **\$21,824.41**

Optional Rock? YES

COST PER STATION \$4,472.22

SUMMARY OF ROAD

Sale: WEATHERMAN

Road: BR-3130

Required Pre-Haul Maintenance-	0+00	stations
	0.00	miles
Required Abandonment-	0+00	stations
	0.00	miles

Required Reconstruction -	0+00	stations
	0.00	miles
Optional Reconstruction -	0+00	stations
	0.00	miles

Required Construction -	0+00	stations
	0.00	miles
Optional Construction -	5+52	stations
	0.10	miles

CONSTRUCTION

CLEARING/GRUBBING

Scattering Organic Debris	5.52	sta	@	\$280.00	per sta	\$1,545.60
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EXCAVATION

Road Construction Earthwork	5.52	sta.	@	\$152.17	per sta. =	\$839.98
Grade and shape subgrade -	5.52	stations	@	\$14.60	per station	\$80.59

MISC.

Roll subgrade w/ vibratory roller prior to rocking -	5.52	stations	@	\$12.12	per station	\$66.90
Construct turnaround @ sta. - 4+47	1.00	@		\$134.62	each	\$134.62
Construct landing -	1.00	@		\$538.46	each	\$538.46
Grass seed and fertilize -	17.00	lbs	@	\$4.00	per lbs	\$68.00

TOTAL CLEARING, GRUBBING, EXCAVATION, FILL, and MISC.	\$3,274.15
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ROCK

0+00	to	5+52	591	cy. of	4" Minus	@	\$30.75	per c.y. =	<u>\$18,173.25</u>	
									\$18,173.25	

SUBTOTAL	\$21,447.40
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MOBILIZATON

SUBTOTAL	\$1,026.42
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OVERHEAD & GENERAL EXPENSES

10%	SUBTOTAL	\$2,247.38
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Optional Rock? YES

TOTAL	\$24,721.20
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COST PER STATION	\$4,478.48
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SUMMARY OF ROAD

Sale: WEATHERMAN

Road: BR-3100

Required Pre-Haul Maintenance-	21+50	stations	0.41	miles
Required Abandonment-	0+00	stations	0.00	miles

Required Reconstruction -	0+00	stations	0.00	miles
Optional Reconstruction -	0+00	stations	0.00	miles

Required Construction -	0+00	stations	0.00	miles
Optional Construction -	0+00	stations	0.00	miles

PRE-HAUL MAINTENANCE

MISC.

Grade and shape existing road surface -	21.50	stations @	\$18.25	per station	\$392.38
Roll shaped road surface w/ vibratory roller prior to rocking -	21.50	stations @	\$9.70	per station	\$208.55
			TOTAL CLEARING, GRUBBING, EXCAVATION, FILL, and MISC.		\$600.93

SUBTOTAL **\$600.93**

MOBILIZATION

SUBTOTAL **\$188.39**

OVERHEAD & GENERAL EXPENSES

SUBTOTAL **\$78.93**

Optional Rock? NO

TOTAL \$868.25

COST PER STATION \$40.38

ROCK DEVELOPMENT COST SUMMARY

Pit:	Commercial	Location:	Oakville, WA
Sale:	WEATHERMAN	Road:	3759 c.y.
Swell:	1.40	Stockpile:	c.y.
Shrinkage	1.16	Total Truck Loads:	3759 c.y.

Base Cost=	\$17.89	Per Cu.Yd.	(Purchase cost 4" Minus Crushed)
	\$25.13	Per Cu.Yd.	(Purchase cost Quarry Spalls)

Road Segment	Haul Cost /cu.yd.	Application Cost /cu.yd.	Base Cst. /cu.yd.	Cost /cu.yd.	Number Cu. Yds	Speed (Mi/hr.)	One-Way Dist (ft)	ROCK COST
BR-2700	\$12.04	\$1.00	\$17.89	\$30.93	1803	26	71200	\$55,766.79
BR-2700 Energy Dissipator	\$17.56	\$6.00	\$25.13	\$48.69	5	26	71200	\$243.45
BR-2710	\$12.08	\$1.00	\$17.89	\$30.97	863	26	71450	\$26,727.11
BR-2710 Energy Dissipator	\$16.47	\$6.00	\$25.13	\$47.60	2	26	71450	\$95.20
BR-3110	\$11.76	\$1.00	\$17.89	\$30.65	494	26	69270	\$15,141.10
BR-3110 Energy Dissipator	\$17.64	\$6.00	\$25.13	\$48.77	1	26	69270	\$48.77
BR-3130	\$11.86	\$1.00	\$17.89	\$30.75	591	26	70000	\$18,173.25
					Total C.Y.	3759	Sub Total	\$116,195.67

TOTAL ROCKING COSTS \$116,195.67

ROCK DEVELOPMENT COST SUMMARY

Pit:	Commercial	Location:	Oakville, WA
Sale:	WEATHERMAN	Road:	1411 c.y.
Swell:	1.40	Stockpile:	c.y.

Base Cost=	\$19.42	Per Cu.Yd.	(Purchase Cost 2.5" Minus Crushed)
	\$25.34	Per Cu.Yd.	(Purchase Cost 1.25" Minus Crushed DOT)

Road Segment	Haul Cost /cu.yd.	Application Cost /cu.yd.	Base Cst. /cu.yd.	Cost /cu.yd.	Number Cu. Yds	Speed (Mi/hr.)	One-way Dist (ft)	ROCK COST
BR-2000	\$11.35	\$1.00	\$19.42	\$31.77	790	27	69000	\$25,098.30
BR-2000 Spot Rock	\$10.73	\$1.00	\$19.42	\$31.15	250	28	67000	\$7,787.50
BR-3000	\$11.36	\$1.00	\$19.42	\$31.78	371	27	69100	\$11,790.38
					Total C.Y.	1411	Sub Total	\$44,676.18

TOTAL ROCKING COSTS \$44,676.18



WASHINGTON STATE DEPARTMENT OF NATURAL RESOURCES

FOREST EXCISE TAX ROAD SUMMARY SHEET

Region:

Timber Sale Name:

Application Number:

EXCISE TAX APPLICABLE ACTIVITIES

Construction: linear feet
Road to be constructed (optional and required) but not abandoned

Reconstruction: linear feet
Road to be reconstructed (optional and required) but not abandoned

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 required) prior to haul

EXCISE TAX EXEMPT ACTIVITIES

Temporary Construction: linear feet
Roads to be constructed (optional and required) and then abandoned

Temporary Reconstruction: linear feet
Roads to be reconstructed (optional and required) and then abandoned

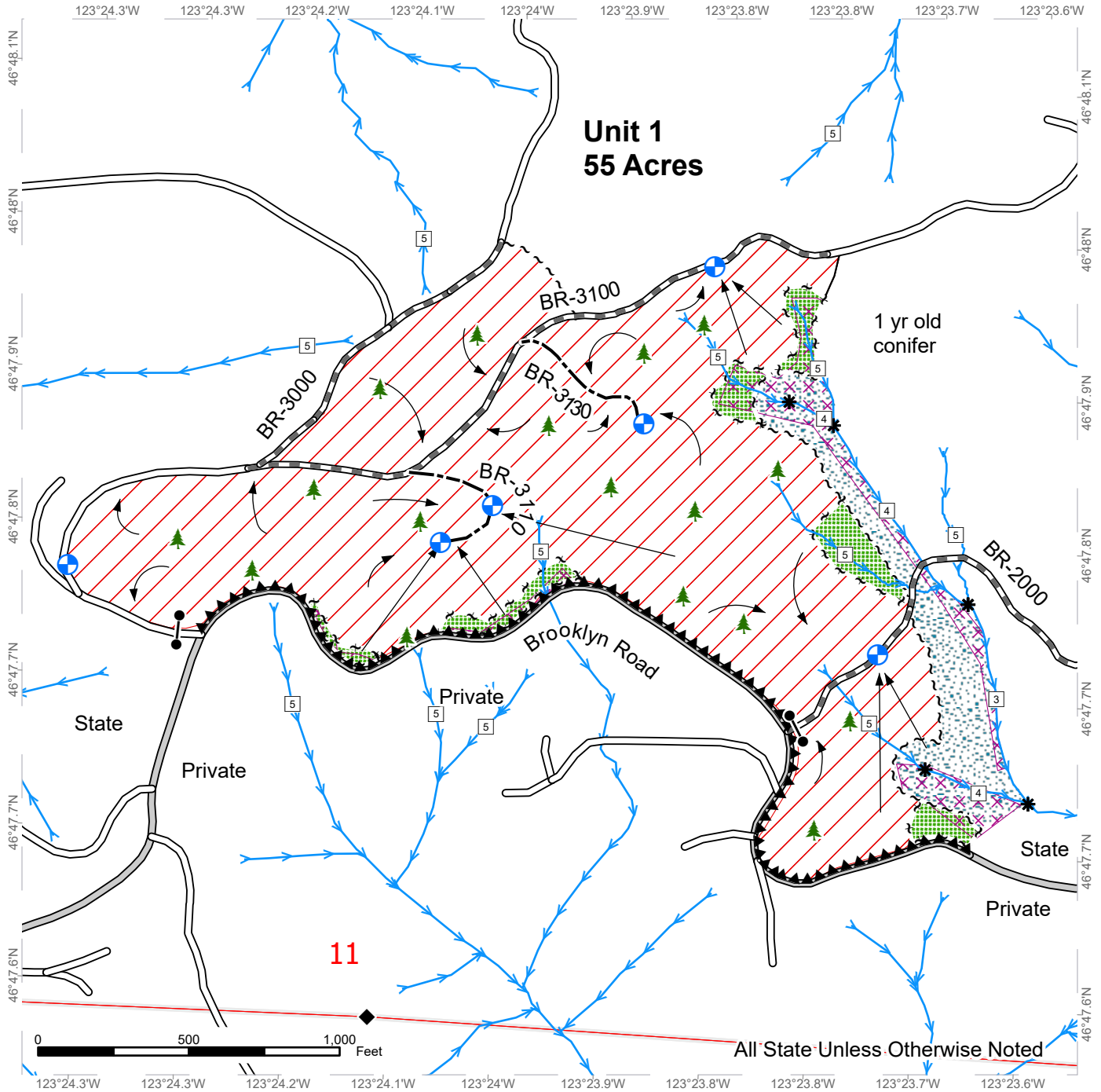
All parties must make their own assessment of the taxable or non-taxable status of any work performed under the timber sale contract. The Department of Revenue bears responsibility for determining forest road excise taxes. The Department of Natural Resources developed this form to help estimate the impact 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)

LOGGING PLAN MAP

SALE NAME: WEATHERMAN
AGREEMENT#: 30-105537
TOWNSHIP(S): T15R6W
TRUST(S): Charitable/Educational/Peenal & Reformatory Instit. (6), Common School and Indemnity (3)

REGION: Pacific Cascade Region
COUNTY(S): Grays Harbor
ELEVATION RGE: 680-1120



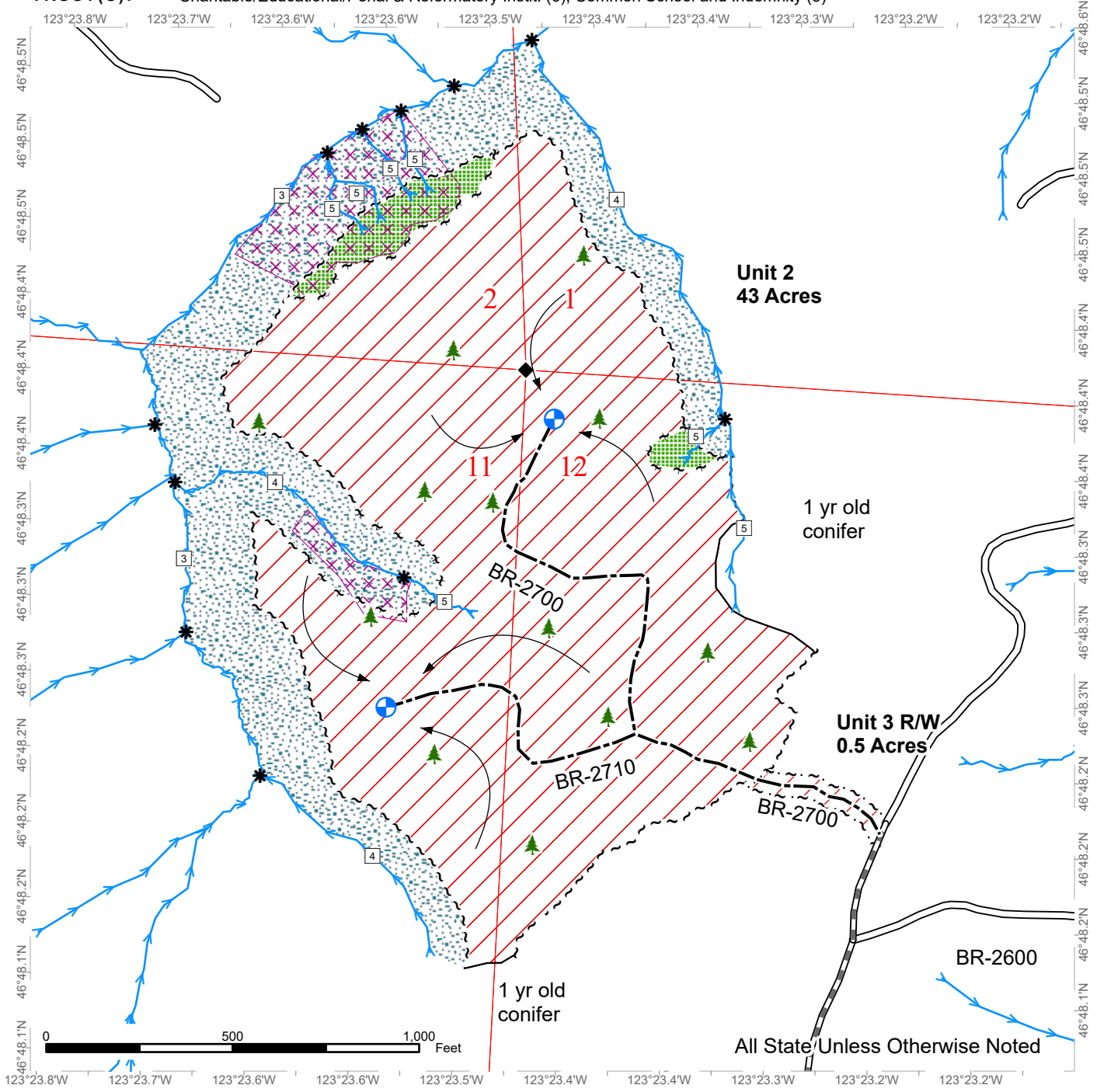
Variable Retention Harvest	Timber Type Change	Stream Type
Ground Harvest	Leave Tree Tags	Stream Type Break
Cable Harvest	County Road	Survey Monument
Leave Tree Area	Existing Roads	Gate (PCP 1-1)
Riparian Mgt Zone	Required Pre-Haul Maintenance	Landing - Proposed
Potentially Unstable Slopes	Optional Construction	Leave Tree Area <1/4-acre
Sale Boundary Tags	Streams	



LOGGING PLAN MAP

SALE NAME: WEATHERMAN
AGREEMENT#: 30-105537
TOWNSHIP(S): T15R6W
TRUST(S): Charitable/Educational/Penal & Reformatory Instit. (6), Common School and Indemnity (3)

REGION: Pacific Cascade Region
COUNTY(S): Grays Harbor
ELEVATION RGE: 680-1120



Variable Retention Harvest	Timber Type Change	Streams
Sale Area	Leave Tree Tags	Stream Type
Leave Tree Area	Right of Way Tags	Stream Type Break
Riparian Mgt Zone	Existing Roads	Landing - Proposed
Potentially Unstable Slopes	Required Pre-Haul Maintenance	Leave Tree Area <1/4-acre
Sale Boundary Tags	Optional Construction	Survey Monument