

TIMBER NOTICE OF SALE

SALE NAME: T3 DOUGLAS AGREEMENT NO: 30-102254

AUCTION: October 25, 2023 starting at 10:00 a.m., COUNTY: Jefferson

Olympic Region Office, Forks, WA

SALE LOCATION: Sale located approximately 30 miles southeast of Forks, WA

PRODUCTS SOLD

AND SALE AREA: All timber, except trees marked with a band of blue paint, bounded out by leave tree area

tags, any downed red cedar; bounded by timber sale boundary tags, and the C-2824 Road in Unit 1; timber sale boundary tags and special management unit boundary tags in Units

2 and Unit 4;

All timber as described in Schedule D except as described in Schedule C, bounded by

timber sale boundary tags and special management area tags in Unit 3.

All forest products above located on part(s) of Sections 7, 8, 17 and 18 all in Township

25 North, Range 11 West, W.M., containing 128 acres, more or less.

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

no: BVC-SFIFM-018227)

ESTIMATED SALE VOLUMES AND QUALITY:

	Avg Ring	Total			N	IBF by	Grade	;			
Species	DBH Count	MBF	1P	2P	3P	SM	1S	2S	3S	4S	UT
Douglas fir	16.5	2,284						745	1,228	282	29
Hemlock	12	1,079						50	605	398	26
Red alder	10.9	119							9	105	5
Sale Total		3,482									

MINIMUM BID: \$222,000.00 BID METHOD: Sealed Bids

PERFORMANCE

SECURITY: \$44,400.00 SALE TYPE: Lump Sum

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

BID DEPOSIT: \$22,200.00 or Bid Bond. Said deposit shall constitute an opening bid at the appraised

price.

HARVEST METHOD: Ground 10% Cable 90% Forest products sold under this contract shall be harvested and

removed using cable, cable-tethered and ground based equipment. Cable-tethered equipment is limited to sustained slopes of 75 percent and less. Non-tethered self-leveling tracked equipment is limited to sustained slopes of 65 percent and less. Other ground based equipment is limited to tracked equipment on sustained slopes that are 45 percent

and less. Rubber tired skidders are restricted unless approved by the Contract

Administrator. Authority to use other equipment or to operate outside the equipment specifications detailed above must be approved in writing by the State. There is a 30' equipment limitation zone on all typed water unless approved by the Contract

Administrator.

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ROADS: 14.00 stations of optional construction. 256.50 stations of optional prehaul maintenance.

The purchaser is required to develop rock at Dry Creek Pit by July 31, 2024. See road

plan for details.

ACREAGE DETERMINATION

CRUISE METHOD: Sale acreage was 100% GPS'd. Sale units were cruised using a variable plot sample.

FEES: \$59,194.00 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 timber sale is associated with the T3 research experiment (a collaboration with the

University of Washington), see the H-140 clause for contract requirements.

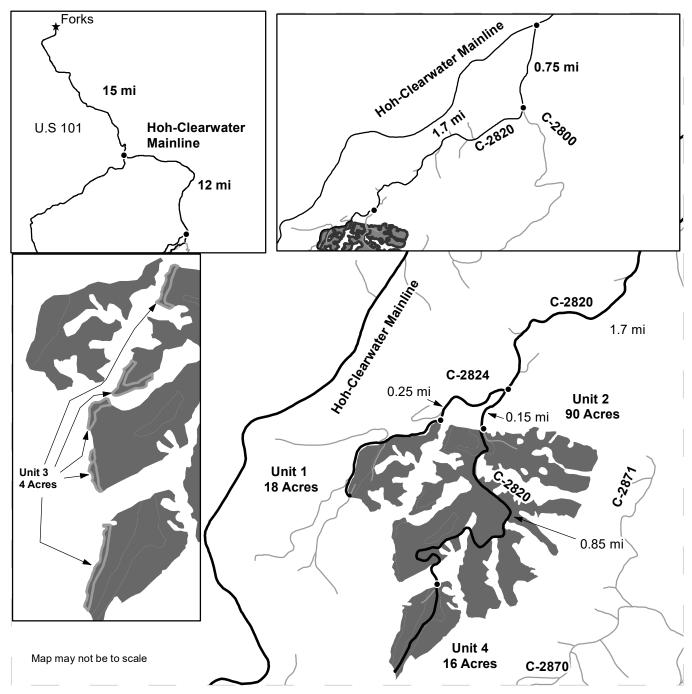
THIS SALE DOES NOT HAVE THE OPTION OF BEING EXTENDED.

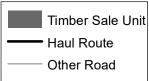
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SALE NAME: T3 DOUGLAS AGREEMENT#: 30-102254 TOWNSHIP(S): T25R11W

TRUST(S): Common School and Indemnity (3)

REGION: Olympic Region
COUNTY(S): Jefferson
ELEVATION RGE: 500'-1160'





DRIVING DIRECTIONS:

Unit 1: From Forks drive south on U.S 101 for 15 miles. Turn left on the Hoh-Clearwater mainline. Continue for 12 miles. Turn left on the C-2800, continue for 0.75 miles. Turn right on the C-2820, continue for 1.7 miles. Turn right on the C-2820/C-2824 junction. Continue for 0.25 miles to reach unit 1.

Unit 2: From the C-2820/C-2824 continue on the C-2820 for 0.15 miles to reach unit 2.

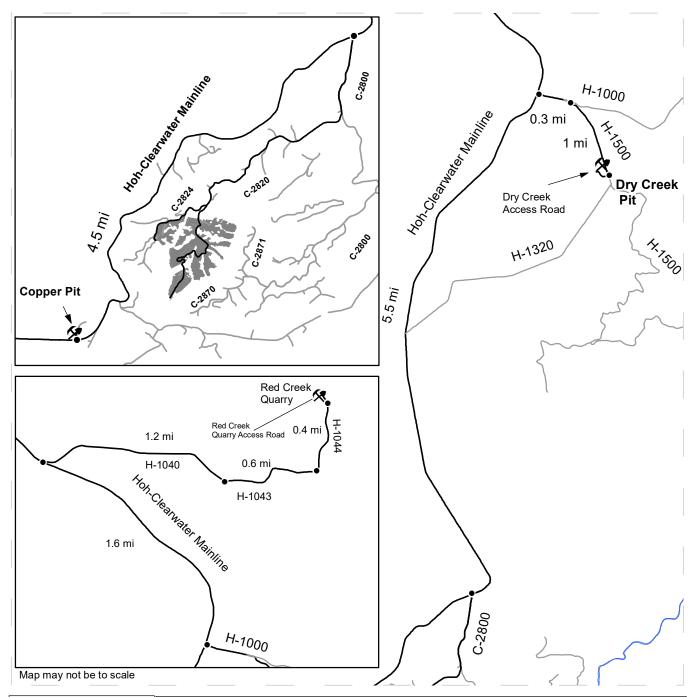
Unit 3: Unit 3 is located within the riparian management zones of unit 2.

Unit 4: from Unit 2 continue on the C-2820 for 0.85 miles to reach unit 4.

SALE NAME: T3 DOUGLAS AGREEMENT#: 30-102254 TOWNSHIP(S): T25R11W, T2611W

TRUST(S): Common School and Indemnity (3)

REGION: Olympic Region
COUNTY(S): Jefferson
ELEVATION RGE: 500'-1160'



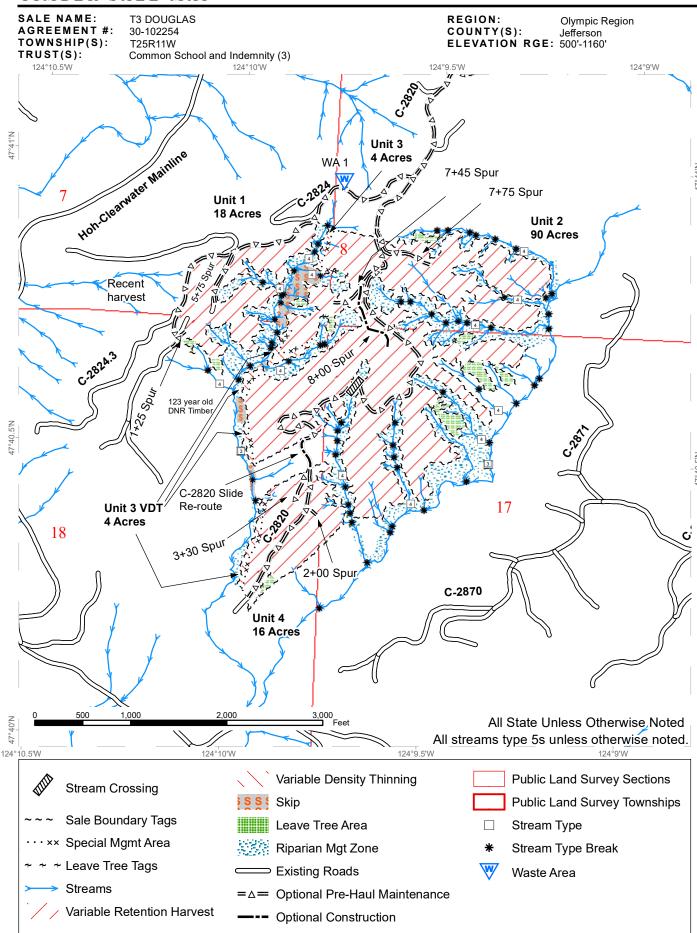


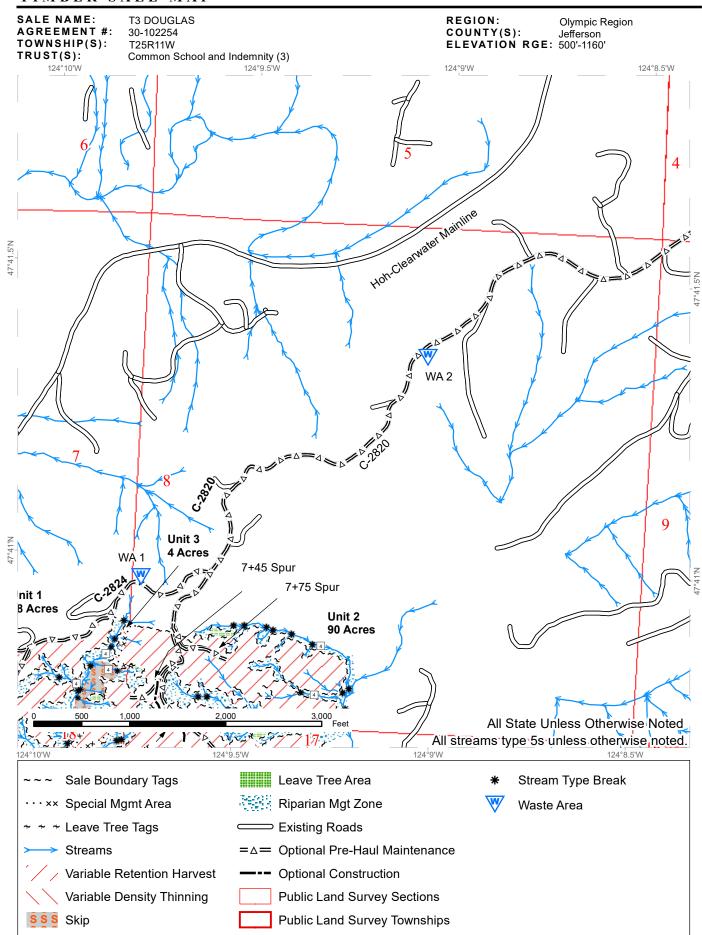
DRIVING DIRECTIONS:

Copper Pit: From the Hoh-Clearwater mainline/ C-2800 junction, head south for 4.5 miles. Turn right on Copper Pit access road.

Dry Creek Pit: From the Hoh-Clearwater Mainline/ C-2800 junction, head north for 5.5 miles, turn right on the H-1000. Continue for 0.3 miles, turn right on the H-1500. Continue for 1 mile and turn right on Dry Pit access road.

Red Creek Quarry: From the H-1040/ Hoh Clearwater Mainline Junction drive 1.2 miles on the H-1040. Turn left on the H-1043 and continue for 0.6 miles. Turn left on the H-1044, continue for 0.4 miles to reach Red Creek Quarry Access road.





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STATE OF WASHINGTON DEPARTMENT OF NATURAL RESOURCES

BILL OF SALE AND CONTRACT FOR FOREST PRODUCTS

Export Restricted Lump Sum AGREEMENT NO. 30-0102254

SALE NAME: T3 DOUGLAS

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

Section G: General Terms

G-001 Definitions

The following definitions apply throughout this contract;

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

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

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

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

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

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

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

G-011 Right to Remove Forest Products and Contract Area

Purchaser was the successful bidder on October 25, 2023 and the sale was confirmed on ______. The State, as owner, agrees to sell to Purchaser, and Purchaser agrees to purchase as much of the following forest products as can be cut and removed during the term of this contract: All timber, except trees marked with a band of blue paint, bounded out by leave tree area tags, any downed red cedar; bounded by timber sale boundary tags, and the C-2824 Road in Unit 1; timber sale boundary tags and special management unit boundary tags in Units 2 and Unit 4;

All timber as described in Schedule D except as described in Schedule C, bounded by timber sale boundary tags and special management area tags in Unit 3.

All forest products above located on approximately 128 acres on part(s) of Sections 7, 8, 17, and 18 all in Township 25 North, Range 11 West W.M. in Jefferson 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

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estimates, appraisals, pre-bid documentation, or any other representations by the State Department of Natural Resources.

G-025 Schedules

The following attached schedules are hereby incorporated by reference:

Schedule	Title
A	SLASH PILING SPECS
В	GREEN RETENTION PLAN
C	LEAVE TREE SELECTION CRITERIA
D	UNIT TARGET TABLE
Е	CUT TREE SELECTION CRITERIA

G-031 Contract Term

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

G-040 Contract Term Adjustment - No Payment

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

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

G-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:

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- 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.

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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

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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:

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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.

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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-106 Adding Naturally Damaged Forest Products

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

G-111 Title and Risk of Loss

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

G-116 Sustainable Forestry Initiative® (SFI) Certification

Forest products purchased under this contract are certified as being in conformance with the Sustainable Forestry Initiative program 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® program 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

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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

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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.

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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'

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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 Forks, 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.

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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.

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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.

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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; Hoh-Clearwater mainline, C-2800, C-2820, C-2824, 1+25 Spur, 5+75 Spur, 7+75 Spur, 7+45 Spur, 8+00 Spur, 2+00 Spur, 3+30 Spur, H-1000, H-1500, Dry Creek Pit Access Road, Copper Pit Access Road, Red Creek Quarry access roads, H-1040, H-1044, and H-1044.3. 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.

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G-340 Preservation of Markers

Any legal land subdivision survey corners and witness objects are to be preserved. If such are destroyed or disturbed, the Purchaser shall, at the Purchaser's own expense, reestablish them through a licensed land surveyor in accordance with U.S. General Land Office standards. Corners and/or witness objects that must be disturbed or destroyed in 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 C-2800 (Stations 0+00+91+00) and the C-2824, unless authority is granted in writing by the Contract Administrator.

G-380 Road Easement and Road Use Permit Requirements

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

55-000467 Bert and Norma Cole

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.

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P-020 Payment for Forest Products

Purchaser agrees to pay the total, lump sum contract price of \$90,532.00. The total contract price consists of a \$0.00 contract bid price plus \$90,532.00 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 \$44,400.00. 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

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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-011 Certification of Fallers and Yarder Operators

All persons engaged in the felling and yarding of timber must receive certification in writing from the Contract Administrator. Certification may be revoked when the Contract Administrator determines that non-compliance of leave tree selection criteria or cut tree selection criteria is occurring, or excessive damage to leave trees or skid trails is occurring.

Excessive damage for leave trees is defined in clause H-012. Excessive damage for reserve trees is defined in clause H-013.

Excessive skid trail damage is defined in clause H-015 or H-016.

When leave tree damage exceeds the limits set forth in clause H-012, Purchaser shall be subject to liquidated damages (clause D-040) When reserve tree damage exceeds the limits set forth in clause H-013, Purchaser shall be subject to liquidated damages (clause D-041).

H-012 Leave Tree Damage Definition

Leave trees are trees required for retention within the sale boundary. Purchaser shall protect leave trees from being cut, damaged, or removed during operations.

Leave tree damage exists when more than 5 percent of the leave trees are damaged in a unit and when one or more of the following criteria occur as a result of Purchaser's operation, as determined by the Contract Administrator:

- a. A leave tree has one or more scars on its trunk exposing the cambium layer, which in total exceeds 100 square inches.
- b. A leave tree top is broken or the live crown ratio is reduced below 30 percent.
- c. A leave 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 leave tree has been cut or damaged, the Purchaser may be required to pay liquidated damages for Excessive Leave Tree Damage as detailed in clause D-040.

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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 utilizing rubber tired skidders in the sale area. The plan shall address the locations and timing of the desired area, 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.

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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-080 Snags Not to be Felled

Snags not required to be felled for safety reasons may be left standing. Snags felled for safety reasons shall not be removed and must remain where felled.

H-120 Harvesting Equipment

Forest products sold under this contract shall be harvested and removed using cable, cable tethered and ground based equipment. Cable-tethered equipment is limited to sustained slopes of 75 percent and less. Non-tethered self-leveling tracked equipment is limited to sustained slopes of 65 percent and less. Other ground based equipment is limited to tracked equipment on sustained slopes that are 45 percent and less. Rubber tired skidders are restricted unless approved by the Contract Administrator. Authority to use other equipment or to operate outside the equipment specifications detailed above must be approved in writing by the State. There is a 30' equipment limitation zone on all typed water unless approved by the Contract Administrator. 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-140 Special Harvest Requirements

Purchaser shall accomplish the following during the harvest operations:

- 1. While felling timber, two Warning signs must be posted on the C-2820 and C-2824.
- 2. The Purchaser shall notify all employees and contractors working on this sale that any danger tree, marked or unmarked, may be felled. Any felled marked danger tree shall be replaced with a suitable tree of similar size and species as approved by the Contract Administrator.
- 3. Purchaser shall pre-mark corridors for cable yarding in Unit 2 and give 3 days' notice for Geologist approval. Bumper logs will be used is all yarding corridors across streams and cut RMZ trees will be left behind. Yarding Corridor width shall not exceed 30 feet.

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- 4. Special requirements associated with the T3 project:
- a. Trees marked with yellow paint (acoustic monitoring plot centers associated with the T3 experiment) are to be cut to a minimum stump height of 4.5 ft. or higher when safe to do so.
- b. Researchers (DNR and/or non-DNR staff) may be on site as observers and data recorders and/or may leave recording devices during the harvest and shipping of timber within the research areas.
- c. Documentation (a simple form will be provided) may be required for the accounting of daily activities and projected costs. Data collected and stored by logging equipment (such as but not limited to processors and feller bunchers) are required to be made available upon request.
- d. Provide removal volume and species information upon request for designated research areas

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

H-190 Completion of Settings

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

H-220 Protection of Residual or Adjacent Trees

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

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.

Section C: Construction and Maintenance

C-040 Road Plan

Road construction and associated work provisions of the Road Plan for this sale, dated 8/10/2023 are hereby made a part of this contract.

C-050 Purchaser Road Maintenance and Repair

Purchaser shall perform work at their own expense on all roads listed in the Road Plan, authorized in clause G-310, and not listed in clause C-060. All work shall be completed to the specifications detailed in the Road Plan.

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C-060 Designated Road Maintainer

If required by the State, Purchaser shall perform maintenance and replacement work as directed by the Contract Administrator on Hoh-Clearwater Mainline (station 0+00-1357+50), C-2800 (station 0+00-38+35), H-1000 (station 0+00-16+40), H-1500 (station 0+00-16+40), Dry Creek Pit Access Road, the Copper Pit Access Road and the Red Creek Quarry Access Roads. 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-140 Water Bars

Purchaser shall, as directed by the Contract Administrator, construct water bars across haul roads, skid trails and fire trails as necessary to control soil erosion and water pollution.

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-030 Landing Debris Clean Up

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

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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-100 Stream Cleanout

Slash or debris which enters any stream 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-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,

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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.

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D-040 Leave Tree Excessive Damage

When Purchaser's operations exceed the damage limits set forth in clause H-012, Leave Tree Damage Definition, the trees damaged result in substantial injury to the State. The value of the damaged leave trees at the time of the breach is not readily ascertainable. Therefore, Purchaser agrees to pay the State as liquidated damages at the rate of \$500.00 per tree for all damaged trees in Units 3.

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 Units 1, 2 and 4.

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	Jill DeCianne, Acting Olympic Region Manager
Print Name	Orympic Region Wanager
Date:	Date:

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

STATE OF _					
COUNTY OF _)			
On this	day of		, 20	_, before me pe	rsonally
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Schedule A SLASH PILING SPECS

The areas shall be piled by creating circular piles of slash and brush conforming to the following specifications:

- 1. Piles shall be a minimum of 12 feet tall by 8 feet wide to a maximum of 30 feet tall and 16 feet wide. Piles shall be cone shaped and stable.
- 2. Piles shall be free of topsoil, large rotten logs and large stumps. No material larger than 8 inches in diameter shall be piled. Any burnable material shall be well scattered.
- 3. Piles shall not be placed on large stumps or logs.
- 4. Piles shall be stacked a minimum of 50 feet from all unit boundaries, Riparian Management Zones, leave tree areas and any standing timber; a minimum of 100 feet from any public roads and highways; and a minimum of 200 feet from any structures.
- 5. Piling shall be completed using an approved hydraulic shovel and grapples.
- 6. Slash and displaced soil shall be removed from swales and natural drainage channels concurrent with yarding.
- 7. Slash shall be placed in skid roads or ahead of machinery. Slash which accumulates on landings and/or roads shall be lopped and scattered within the harvest area or as designated by the Contract Administrator.
- 8. Slash generated during cable yarding shall be stacked in dirt free piles and shall not block roads or interfere with functioning of drainage structures, ditches, or stream channels.

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Schedule B GREEN RETENTION PLAN

Leave the following as directed by the Contract Administrator:

1. All trees marked with a blue band of paint and all leave tree area clumps shall remain standing.

The perimeter of the leave tree clumps are designated by Leave Tree Area tags. The tags face outward from the leave tree clumps.

	# of Individually		# of Trees	Total # of
Unit #	Marked Trees	# of Clumps	Clumped	Leave Trees
1	9	2	135	144
2	25	8	695	720
4	20	1	108	128

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Schedule C LEAVE TREE SELECTION CRITERIA

- 1. Leave trees are defined as follows:
- a. All trees greater than or equal to 20 inches in diameter at a 12 inch stump height.
- b. Trees greater than or equal to 16 inches in diameter at a 12 inch stump height, with good form, shall only be felled if leaving them results in a residual stand of higher relative density than shown in the Unit Target Table (Schedule D)
- c. All trees less than 16 inches in diameter at a 12 inch stump height needed to achieve relative densities as shown in the Unit Target Table (Schedule D).
- d. All trees within the skip area as shown on the timber sale maps.
- 2. Leave trees shall be well distributed at the relative density and spacing shown in the Unit Target Table (Schedule D) and will consist of the largest diameter and best formed trees available.

Best form is defined as follows:

- a. Tallest trees.
- b. Straightest boles.
- c. Smaller diameter limbs
- 3. Leave trees will be identified by comparing their characteristics with other trees in the stand. Spacing will be varied to insure the best trees available are left as leave trees. Felling of trees shall not result in creating an opening in the stand greater than 38 feet in diameter. If openings in the stand approach this diameter, then sufficient trees shall be left on the perimeter of the opening to maintain the target density or spacing (Unit Target Table- Schedule D).

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Schedule D UNIT TARGET TABLE

<u>Unit</u>	Acres	Approx. Stems/acre	Approx. Spacing	Relative Density	Basal Area
3	4	30	38'	16	73

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Schedule E CUT TREE SELECTION CRITERIA

- 1. Cut trees are defined as all trees in the sale area, as shown on the timber sale maps that meet the following criteria:
- a. All trees less than 20 inches in diameter at a 12 inch stump height provided that enough evenly distributed trees per acre remain to achieve the relative densities shown in the Unit Target Table (Schedule D).
- b. All trees which are severely deformed, as defined below in part II, provided that the remaining stand is not reduced below the relative densities shown in the Unit Target Table (Schedule D); or unless designated by the Contract Administrator for snag recruitment.
- c. Those trees, which are not defined as, leave trees.
- 2. Severely deformed trees are defined as trees with one or more of the following characteristics:
- a. Trees with three (3) or more tops.
- b. Trees with a broken top.
- c. Trees with two (2) tops if they twist around each other or are otherwise badly deformed.
- d. Trees with basal scars or scars on the lower stem if visible soft decay is evident. Trees with scars that have healed over are not to be considered severely deformed.

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WASHINGTON STATE DEPARTMENT OF NATURAL RESOURCES

FOREST EXCISE TAX ROAD SUMMARY SHEET

Timber Sale Name:	
Application Number:	
EXCISE TAX APPLICABLE ACTIVITIES	
Construction: Road to be constructed (optional and required) but not aband	linear feet doned
Reconstruction: Road to be reconstructed (optional and required) but not aba	linear feet indoned
Abandonment: Abandonment of existing roads not reconstructed under the	linear feet contract
Decommission: Road to be made undriveable but not officially abandoned.	linear feet
Pre-Haul Maintenance: Existing road to receive maintenance work (optional and req	linear feet wired) prior to haul
EXCISE TAX EXEMPT ACTIVITIES	
Temporary Construction: Roads to be constructed (optional and required) and then all	linear feet bandoned
Temporary Reconstruction: Roads to be reconstructed (optional and required) and then	linear feet abandoned

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

Region:

Timber Sale Cruise Report T3 Doulgas

Sale Name: T3 DOUGLAS
Sale Type: LUMP SUM
Region: OLYMPIC

District: COAST

Lead Cruiser: Kevin Peterson

Other Cruisers: Cruise Narrative:

Location:

Located in the Clearwater block on the C-2800. Not locked gates to any units.

Cruise Design:

I used a 54.44/40 BAF combo for all units on the this sale. The 40 BAF was used to pick up Red Alder.

Merch height was determined at 40% of the diameter at 16'. All logs were cruised in 40' lengths.

Timber Quality:

This sale is mostly 50 year old DF with some WH throughout the units, there is some RA near creek draws. Common defects were sweep, forked tops and spike knots.

Logging and Stand Conditions:

This sale is 10% ground based harvest and 90% uphill cable harvest. The units are pretty easy to move through and the ground isn't really that steep.

Timber Sale Notice Volume (MBF)

				MBF Volume by Grade							
Sp	DBH	Rings/In	Age	All	2 Saw	3 Saw	4 Saw	Utility			
DF	16.5			2,284	745	1,228	282	29			
WH	12.0			1,079	50	605	398	26			
RA	10.9			119		9	106	5			
ALL	13.6			3,482	795	1,841	786	59			

Timber Sale Notice Weight (tons)

	Tons by Grade										
Sp	All	2 Saw	3 Saw	4 Saw	Utility						
DF	21,591	6,700	11,713	2,564	614						
WH	11,033	456	6,267	3,793	517						
RA	1,214		89	1,007	118						
ALL	33,837	7,156	18,069	7,363	1,249						

Timber Sale Overall Cruise Statistics (Cut + Leave Trees)

BA (sq ft/acre)			V-BAR SE (%)		
258.4	2.4	106.1	1.7	27,413	2.9

Timber Sale Unit Cruise Design

Unit	Design	Cruise Acres	FMA Acres	N Plots	N Cruise Plots	N Void Plots
T3 DOUGLAS U1	B2C: VR, 2 BAF (54.44, 40 for some species) Measure/Count Plots, Sighting Ht = 4.5 ft	18.0	18.6	10	6	0
T3 DOUGLAS U2	B2C: VR, 2 BAF (54.44, 40 for some species) Measure/Count Plots, Sighting Ht = 4.5 ft	90.0	95.1	45	18	0
T3 DOUGLAS U3	B2C: VR, 2 BAF (54.44, 40 for some species) Measure/Count Plots, Sighting Ht = 4.5 ft	4.0	4.1	3	3	0
T3 DOUGLAS U4	B2C: VR, 2 BAF (54.44, 40 for some species) Measure/Count Plots, Sighting Ht = 4.5 ft	16.0	16.4	9	5	0
All		128.0	134.1	67	32	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	13.6	40	6,246	5,823	6.8	6,700.1	745.4
DF	LIVE	3 SAW	Domestic	8.4	40	10,003	9,590	4.1	11,713.0	1,227.5
DF	LIVE	4 SAW	Domestic	5.2	27	2,236	2,202	1.5	2,563.8	281.8
DF	LIVE	UTILITY	Pulp	2.1	16	228	228	0.0	613.8	29.2
RA	LIVE	3 SAW	Domestic	11.1	30	79	68	13.6	89.1	8.7
RA	LIVE	4 SAW	Domestic	5.7	35	845	826	2.2	1,006.5	105.8
RA	LIVE	UTILITY	Pulp	2.3	14	35	35	0.0	118.1	4.5
WH	LIVE	2 SAW	Domestic	12.8	40	416	388	6.7	455.7	49.7
WH	LIVE	3 SAW	Domestic	8.8	40	4,905	4,727	3.6	6,267.2	605.0
WH	LIVE	4 SAW	Domestic	5.1	29	3,111	3,110	0.0	3,792.7	398.0
WH	LIVE	UTILITY	Pulp	2.1	15	201	201	0.0	516.8	25.8

Timber Sale Log Sort x Diameter Bin Summary

Sp	Bin	Status	Sort	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	< 5	LIVE	Pulp	2.1	17	228	0.0	613.8	29.2
DF	5 - 8	LIVE	Domestic	6.0	33	6,113	2.1	7,587.7	782.5
DF	9 - 11	LIVE	Domestic	10.4	40	5,679	5.3	6,689.1	726.9
DF	12 - 14	LIVE	Domestic	13.2	40	4,304	5.9	5,044.5	550.9
DF	15 - 19	LIVE	Domestic	15.8	40	1,519	9.2	1,655.6	194.5
RA	< 5	LIVE	Pulp	2.2	13	35	0.0	118.1	4.5
RA	5 - 8	LIVE	Domestic	5.6	34	826	2.2	1,006.5	105.8
RA	9 - 11	LIVE	Domestic	11.1	30	68	13.6	89.1	8.7
WH	< 5	LIVE	Pulp	2.1	15	201	0.0	516.8	25.8
WH	5 - 8	LIVE	Domestic	5.7	31	5,195	0.0	6,730.5	664.9
WH	9 - 11	LIVE	Domestic	10.7	40	2,642	6.3	3,329.4	338.1
WH	12 - 14	LIVE	Domestic	12.0	40	263	5.1	312.3	33.6
WH	15 - 19	LIVE	Domestic	15.6	40	126	9.9	143.3	16.1

Unit Sale Notice Volume (MBF): T3 DOUGLAS U1

				MBF Volume by Grade							
Sp	DBH	Rings/In	Age	All	2 Saw	3 Saw	4 Saw	Utility			
DF	18.8			314	145	140	26	3			
WH	11.7			144	18	61	57	7			
RA	10.7			26		4	21	1			
ALL	14.1			484	163	205	104	11			

Unit Cruise Design: T3 DOUGLAS U1

Design	Cruise	FMA	N	N Cruise	N Void
	Acres	Acres	Plots	Plots	Plots
B2C: VR, 2 BAF (54.44, 40 for some species) Measure/Count Plots, Sighting Ht = 4.5 ft	18.0	18.6	10	6	0

Unit Cruise Summary: T3 DOUGLAS U1

Sp	Cruised Trees	All Trees	Trees/Plot	Ring-Count Trees
DF	15	28	2.8	0
WH	9	16	1.6	0
RA	5	5	0.5	0
ALL	29	49	4.9	0

Unit Cruise Statistics (Cut + Leave Trees): T3 DOUGLAS U1

Sp	BA (sq ft/acre)	BA CV (%)	BA SE (%)	V-BAR (bf/sq ft)	V-BAR CV (%)	V-BAR SE (%)	Net Vol (bf/acre)	Vol CV (%)	Vol SE (%)
DF	152.4	60.2	19.0	114.4	17.5	4.5	17,443	62.7	19.6
WH	87.1	73.4	23.2	91.7	37.8	12.6	7,984	82.5	26.4
RA	20.0	253.9	80.3	71.6	10.4	4.6	1,431	254.1	80.4
ALL	259.5	10.3	3.3	103.5	27.8	5.2	26,859	29.7	6.1

Sp	Status	Rx	N	D	DBH	BL	THT	BF Gross	BF Net	Defect %	TPA	ВА	RD	MBF Net
DF	LIVE	CUT	15	ALL	18.8	75	95	18,396	17,443	5.2	79.1	152.4	35.2	314.0
RA	LIVE	CUT	5	ALL	10.7	42	50	1,470	1,431	2.6	32.0	20.0	6.1	25.8

Sp	Status	Rx	N	D	DBH	BL	THT	BF	BF	Defect	TPA	ВА	RD	MBF
								Gross	Net	%				Net
WH	LIVE	CUT	9	ALL	11.7	50	60	8,623	7,984	7.4	116.7	87.1	25.5	143.7
ALL	LIVE	CUT	29	ALL	14.5	57	71	28,489	26,859	5.7	227.8	259.5	66.7	483.5
ALL	ALL	ALL	29	ALL	14.5	57	71	28,489	26,859	5.7	227.8	259.5	66.7	483.5

Unit Sale Notice Volume (MBF): T3 DOUGLAS U2

				MBF Volume by Grade							
Sp	DBH	Rings/In	Age	All	2 Saw	3 Saw	4 Saw	Utility			
DF	15.8			1,657	501	916	216	24			
WH	12.0			796		490	289	16			
RA	10.8			59			56	3			
ALL	13.5			2,511	501	1,407	561	43			

Unit Cruise Design: T3 DOUGLAS U2

Design	Cruise	FMA	N	N Cruise	N Void
	Acres	Acres	Plots	Plots	Plots
B2C: VR, 2 BAF (54.44, 40 for some species) Measure/Count Plots, Sighting Ht = 4.5 ft	90.0	95.1	45	18	0

Unit Cruise Summary: T3 DOUGLAS U2

Sp	Cruised Trees	All Trees	Trees/Plot	Ring-Count Trees
DF	48	138	3.1	0
WH	33	70	1.6	0
RA	9	10	0.2	0
ALL	90	218	4.8	0

Unit Cruise Statistics (Cut + Leave Trees): T3 DOUGLAS 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 (%)
DF	166.9	42.5	6.3	110.3	13.0	1.9	18,407	44.5	6.6
WH	84.7	90.5	13.5	104.4	20.3	3.5	8,844	92.7	13.9
RA	8.9	330.8	49.3	73.2	19.9	6.6	651	331.4	49.8
ALL	260.5	20.4	3.0	107.1	18.8	2.0	27,902	27.7	3.6

Sp	Status	Rx	N	D	DBH	BL	THT	BF Gross	BF Net	Defect %	TPA	ВА	RD	MBF Net
DF	LIVE	CUT	48	ALL	15.8	70	88	19,314	18,407	4.7	122.6	166.9	42.0	1,656.6
RA	LIVE	CUT	9	ALL	10.8	49	59	677	651	4.0	14.0	8.9	2.7	58.6

Sp	Status	Rx	N	D	DBH	BL	THT	BF Gross	BF Net	Defect %	TPA	ВА	RD	MBF Net
WH	LIVE	CUT	33	ALL	12.0	57	70	8,894	8,844	0.6	107.8	84.7	24.4	796.0
ALL	LIVE	CUT	90	ALL	14.0	63	78	28,885	27,902	3.4	244.4	260.5	69.2	2,511.1
ALL	ALL	ALL	90	ALL	14.0	63	78	28,885	27,902	3.4	244.4	260.5	69.2	2,511.1

Unit Sale Notice Volume (MBF): T3 DOUGLAS U3

				MBF Volume by Grade					
Sp	DBH	Rings/In	Age	All	3 Saw	4 Saw			
DF	13.7			49	32	17			
WH	12.8			20	13	7			
RA	12.5			9		9			
ALL	13.3			78	44	33			

Unit Cruise Design: T3 DOUGLAS U3

Design	Cruise	FMA	N	N Cruise	N Void
	Acres	Acres	Plots	Plots	Plots
B2C: VR, 2 BAF (54.44, 40 for some species) Measure/Count Plots, Sighting Ht = 4.5 ft	4.0	4.1	3	3	0

Unit Cruise Summary: T3 DOUGLAS U3

Sp	Cruised Trees	All Trees	Trees/Plot	Ring-Count Trees
DF	7	10	3.3	0
WH	3	4	1.3	0
RA	2	2	0.7	0
ALL	12	16	5.3	0

Unit Cruise Statistics (Cut + Leave Trees): T3 DOUGLAS U3

Sp	BA (sq ft/acre)	BA CV (%)	BA SE (%)	V-BAR (bf/sq ft)	V-BAR CV (%)	V-BAR SE (%)	Net Vol (bf/acre)	Vol CV (%)	Vol SE (%)
DF	181.5	17.3	10.0	95.6	22.6	8.5	17,355	28.5	13.2
WH	72.6	43.3	25.0	90.9	22.3	12.9	6,602	48.7	28.1
RA	26.7	173.2	100.0	86.2	9.8	7.0	2,299	173.5	100.2
ALL	280.7	5.3	3.0	93.5	20.0	5.8	26,255	20.7	6.5

Sp	Status	Rx	N	D	DBH	BL	THT	BF Gross	BF Net	Defect %	TPA	ВА	RD	MBF Net
DF	LIVE	CUT	7	ALL	13.7	58	72	12,335	12,148	1.5	124.1	127.0	34.3	48.6
DF	LIVE	LEA	3	ALL	19.8	74	93	5,286	5,206	1.5	25.5	54.4	12.2	20.8

Sp	Status	Rx	N	D	DBH	BL	THT	BF Gross	BF Net	Defect %	TPA	ВА	RD	MBF Net
RA	LIVE	CUT	2	ALL	12.5	56	69	2,299	2,299	0.0	31.3	26.7	7.5	9.2
WH	LIVE	CUT	3	ALL	12.8	54	66	5,177	4,951	4.4	60.9	54.4	15.2	19.8
WH	LIVE	LEA	1	ALL	23.0	75	93	1,726	1,650	4.4	6.3	18.1	3.8	6.6
ALL	LIVE	LEA	4	ALL	20.5	74	93	7,012	6,857	2.2	31.8	72.6	16.0	27.4
ALL	LIVE	CUT	12	ALL	13.3	57	70	19,811	19,399	2.1	216.3	208.1	57.1	77.6
ALL	ALL	ALL	16	ALL	14.4	59	73	26,823	26,255	2.1	248.1	280.7	73.1	105.0

Unit Sale Notice Volume (MBF): T3 DOUGLAS U4

				MBF Volume by Grade					
Sp	DBH	Rings/In	Age	All	2 Saw	3 Saw	4 Saw	Utility	
DF	18.3			265	100	140	23	2	
WH	12.1			119	31	41	44	3	
RA	10.7			25		4	20	1	
ALL	13.9			409	131	185	87	6	

Unit Cruise Design: T3 DOUGLAS U4

Design	Cruise	FMA	N	N Cruise	N Void
	Acres	Acres	Plots	Plots	Plots
B2C: VR, 2 BAF (54.44, 40 for some species) Measure/Count Plots, Sighting Ht = 4.5 ft	16.0	16.4	9	5	0

Unit Cruise Summary: T3 DOUGLAS U4

Sp	Cruised Trees	All Trees	Trees/Plot	Ring-Count Trees
DF	12	24	2.7	0
WH	8	12	1.3	0
RA	5	5	0.6	0
ALL	25	41	4.6	0

Unit Cruise Statistics (Cut + Leave Trees): T3 DOUGLAS U4

Sp	BA (sq ft/acre)	BA CV (%)	BA SE (%)	V-BAR (bf/sq ft)	V-BAR CV (%)	V-BAR SE (%)	Net Vol (bf/acre)	Vol CV (%)	Vol SE (%)
DF	145.2	65.0	21.7	114.0	19.6	5.7	16,548	67.8	22.4
WH	72.6	75.0	25.0	102.5	27.9	9.9	7,440	80.0	26.9
RA	22.2	240.0	80.0	71.6	10.4	4.6	1,590	240.2	80.1
ALL	240.0	23.5	7.8	106.6	25.5	5.1	25,579	34.7	9.3

Sp	Status	Rx	N	D	DBH	BL	THT	BF Gross	BF Net	Defect %	TPA	ВА	RD	MBF Net
DF	LIVE	CUT	12	ALL	18.3	74	93	17,291	16,548	4.3	79.5	145.2	33.9	264.8
RA	LIVE	CUT	5	ALL	10.7	42	50	1,633	1,590	2.6	35.6	22.2	6.8	25.4

Sp	Status	Rx	N	D	DBH	BL	THT	BF Gross	BF Net	Defect %	TPA	ВА	RD	MBF Net
WH	LIVE	CUT	8	ALL	12.1	51	61	8,045	7,440	7.5	90.9	72.6	20.9	119.0
ALL	LIVE	CUT	25	ALL	14.6	58	72	26,969	25,579	5.2	206.0	240.0	61.6	409.3
ALL	ALL	ALL	25	ALL	14.6	58	72	26,969	25,579	5.2	206.0	240.0	61.6	409.3



			FPA/N No	: 2617997					
			Effective Date	: 7/27/2023					
OF MAT	WALLES .		Expiration Date	: 7/27/2026					
Forest Practices Ap	- plication/Notif	fication	Shut Down Zone: 650						
Notice of	Decision		EARR Tax Credit	☐ Non-eligible					
			Reference	: DNR					
				T3 Douglas					
Decision									
☐ Notification Accepted	Operations shall	I not begin before	the effective date.						
□ Approved	This Forest Prac	ctices Application	is subject to the cor	nditions listed be	low.				
☐ Disapproved	This Forest Prac	ctices Application	is disapproved for th	ne reasons listed	d below.				
☐ Withdrawn	Applicant has wi	ithdrawn the Fore	st Practices Applica	tion/Notification	(FPA/N).				
☐ Closed	All forest practice	es obligations are	met.						
FPA/N Classification Class II Class III	□ Class IVG	⊠ Class IVS	Number of Ye	ears Granted on	ı Multi-Year Request				
Conditions on Approval/Re	easons for Disap	proval							
Condition(s) required for approval/disapproval: Other Other Conditions: Trees that will be yarded over inner gorges, bedrock hollows and other Rule Identified Landforms shall be bucked to a minimum length of 40 feet or shorter as needed to minimize soil disturbance and delivery within the landforms. If additional yarding corridors are needed, portions of those corridors within inner gorges and bedrock hollows shall receive the same mitigation as specified in the Engineering Geologic Risk Assessment, Section 8(c). The locations shall be reviewed by a geologist prior to falling or hanging lines within the corridor. A qualified person (engineer and/or geologist) shall be present on site to ensure that the rip-rap toe is keyed into stable material.									

Issued By: Jenny	Garstang		Region:	Olympic	
Title: Forest Prac	ctices Forester		Date:	7/27/2023	
Copies to:	☑ Landowner, Timb	er Owner and	Operator		
Issued in person:		Ву:			Date:
023 January – FPA/N	Notice of Decision		. <u> </u>		Page 1 of 2

Appeal Information

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

You must file your appeal at all three addresses below:

Pollution Control Hearings Board	Office of the Attorney General Natural Resources Division	Department Of Natural Resources Olympic Region
Physical Address 1111 Israel Road, SW Suite 301 Tumwater, WA 98501 Mailing address Post Office Box 40903	Physical Address 1125 Washington Street, SE Olympia, WA 98504 Mailing Address Post Office Box 40100 Olympia, WA 98504-0100	Physical & Mailing Address 411 Tillicum Lane Forks, WA 98331

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

Other Applicable Laws

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

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

Use the "Notice of Transfer of Approved Forest Practices Application/Notification" form. This form is available at region offices and on the Forest Practices website https://www.dnr.wa.gov/programs-and-services/forest-practices/review-applications-fpars/forest-practices-forms-and-notify">https://www.dnr.wa.gov/programs-and-services/forest-practices/review-applications-fpars/forest-practices-forms-and-notify 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, Rosielly Sanchez, caused the Notice of Decision	for FPA/N No. 2617	7997 to be placed in the United	States mail at
Forks, WA, postage paid. I declare under penalty of	of perjury of the laws	s of the State of Washington, t	hat the foregoing is
true and correct.			

7/27/2023 (Date) Forks, Washington

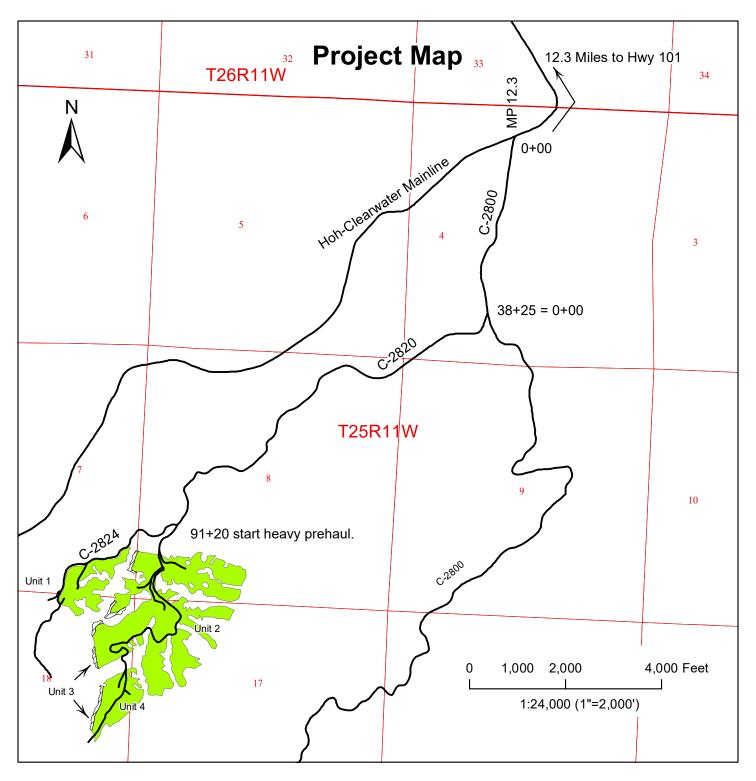
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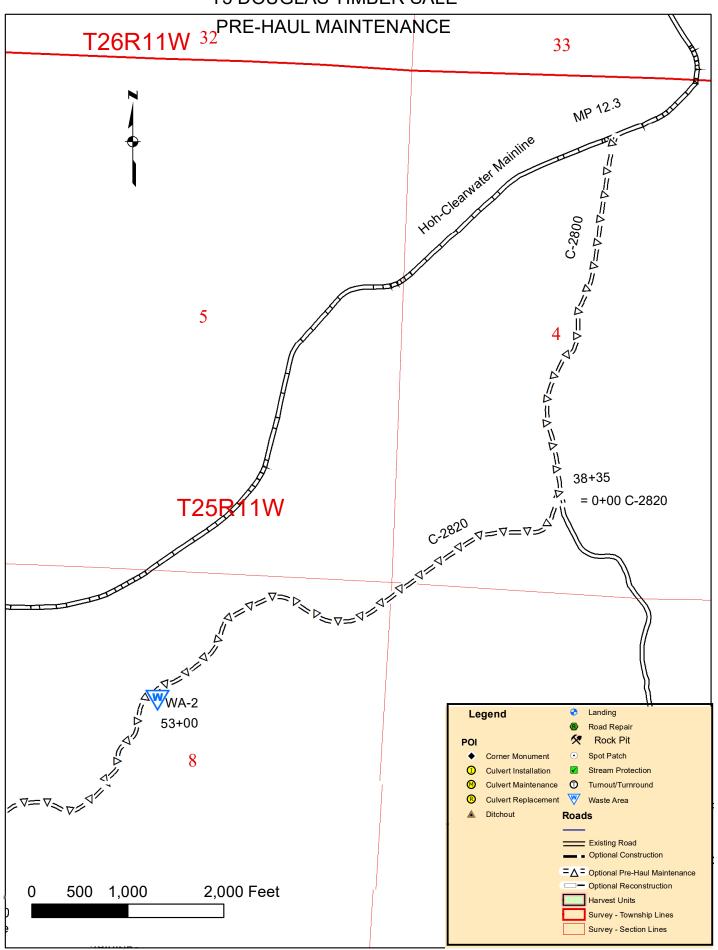
STATE OF WASHINGTON DEPARTMENT OF NATURAL RESOURCES T3 DOUGLAS TIMBER SALE ROAD PLAN JEFFERSON COUNTY COAST DISTRICT

AGREEMENT NO: 30-102254 DISTRICT ENGINEER: BILL MEHL

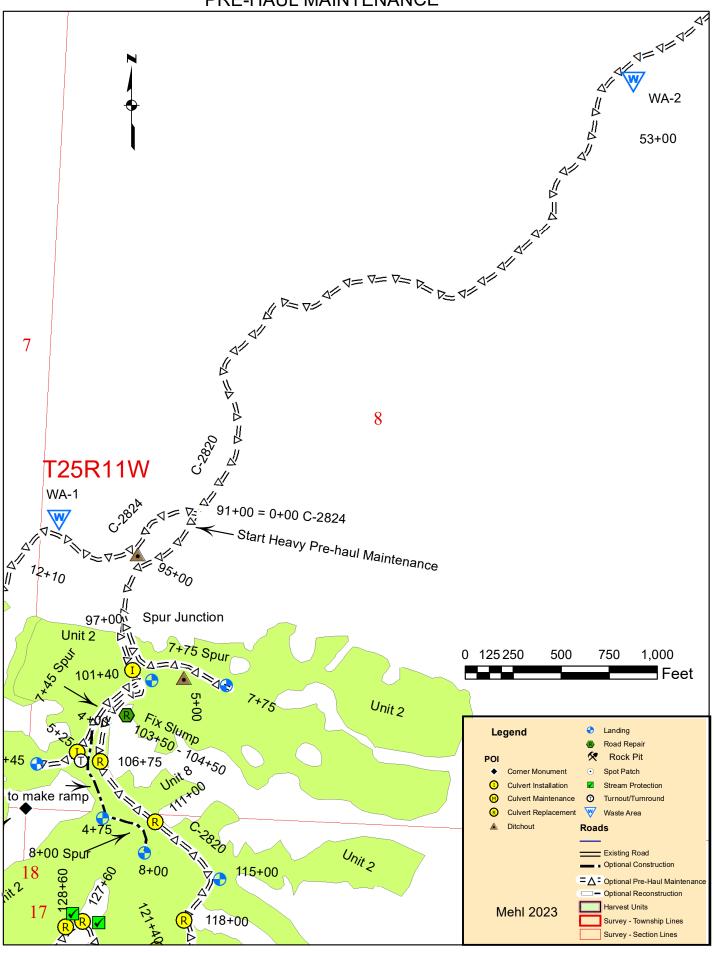
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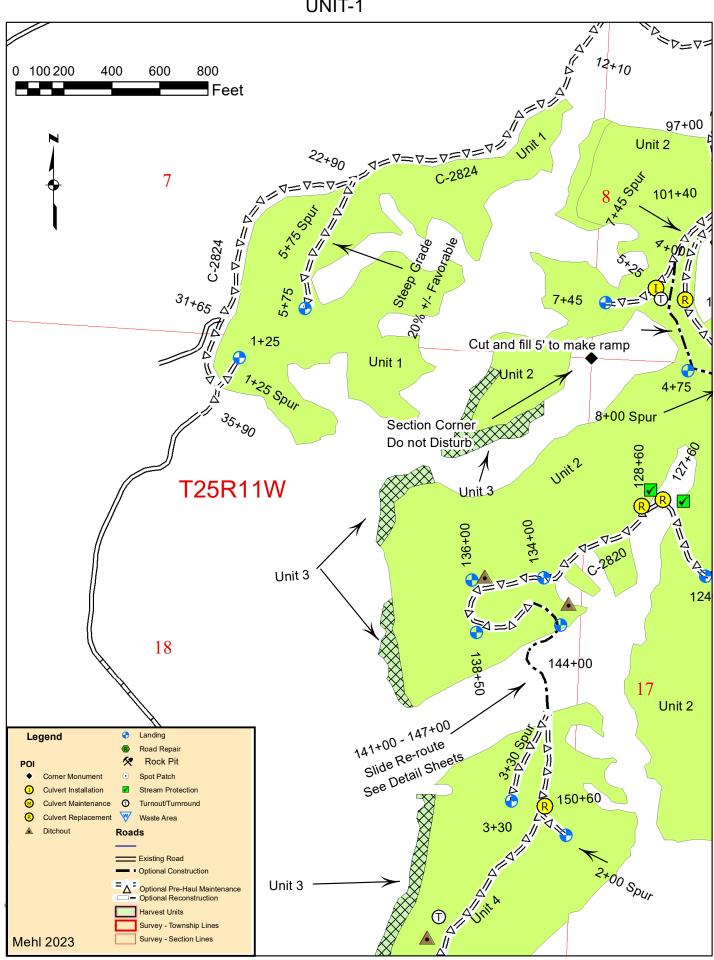
T3 DOUGLAS TIMBER SALE



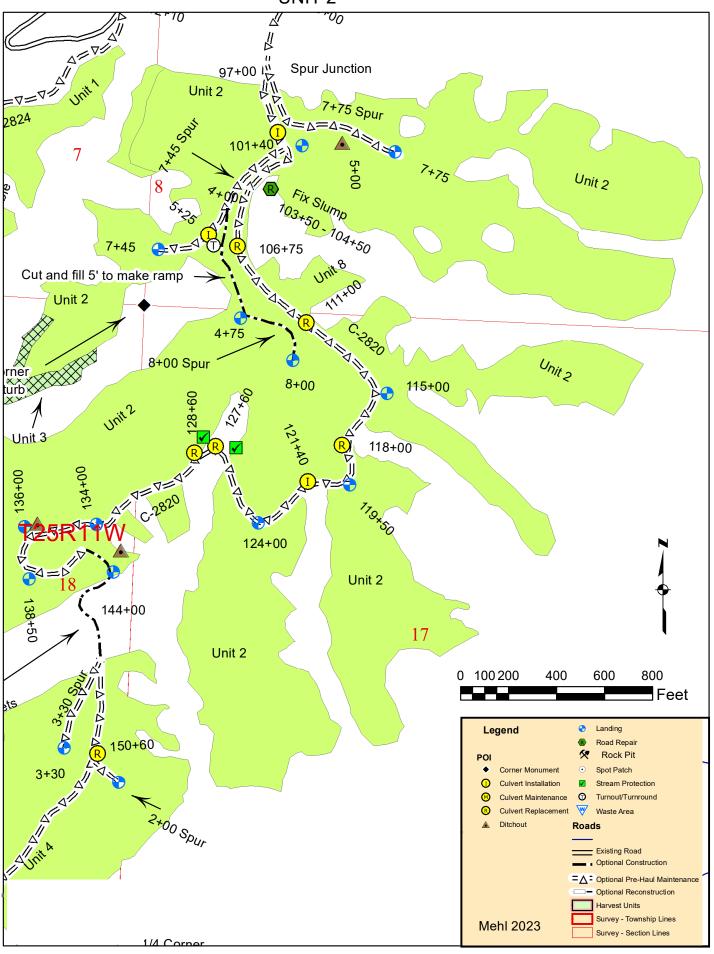
T3 DOUGLAS TIMBER SALE PRE-HAUL MAINTENANCE



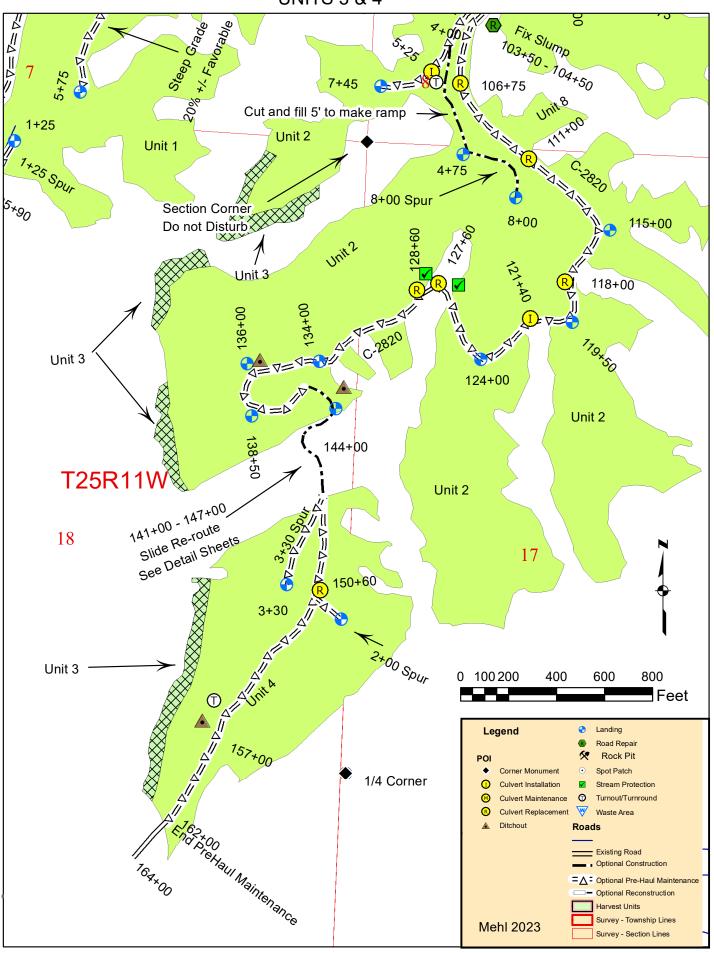
T3 DOUGLAS TIMBER SALE UNIT-1



T3 DOUGLAS TIMBER SALE UNIT 2



T3 DOUGLAS TIMBER SALE UNITS 3 & 4



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.

0-3 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.

Road	<u>Stations</u>	<u>Type</u>
C-2800	38.35	Pre-Haul Maintenance
C-2820	156.00	Pre-Haul Maintenance
C-2820	6.00 (sta. 141+00- 147+00)	Construction
C-2824	35.90	Pre-Haul Maintenance
7+75 Spur	7.75	Pre-Haul Maintenance
7+45 Spur	7.45	Pre-Haul Maintenance
8+00 Spur	8.00	Construction
5+75 Spur	4.50	Pre-Haul Maintenance
1+25 Spur	1.25	Pre-Haul Maintenance
3+30 Spur	3.30	Pre-Haul Maintenance
2+00 Spur	2.00	Pre-Haul Maintenance

0-4 CONSTRUCTION

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

Road	<u>Stations</u>	<u>Requirements</u>
8+00 Spur	0+00 – 8+00	See Below
C-2820	141+00 – 147+00	Slide Re-Route, See Detail Sheets.
Total:	14.00	

Construction includes, but is not limited to:

Clearing, grubbing, right-of-way debris disposal, excavation and/or embankment to subgrade, end hauling material for construction, compacting road surfaces, constructing ditchlines, constructing ditchouts, constructing turnouts and turnarounds, curve widening, acquisition and installation of drainage structures, application of rock, spreading grass seed and hay.

0-6 PRE-HAUL MAINTENANCE

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

Road	<u>Stations</u>	<u>Requirements</u>
C-2800	0+00 – 38+35	Grade and shape road in accordance with
		Clause 2-5. Clean culverts in accordance with Clause 2-6 and Culvert List. Maintain
		erosion control structures in accordance with
		Clause 2-8 and as directed by Contract
		Administrator.

C-2820	0+00 – 91+00	Grade and shape road in accordance with Clause 2-5. Brush road in accordance with Clause 3-1 and Brushing Detail. Apply rock in accordance with Rock List. Compact rock in accordance with Compaction List. Clean culverts in accordance with Clause 2-6 and Culvert List. Maintain erosion control structures in accordance with Clause 2-8 and as directed by Contract Administrator.
C-2820	91+00 – 141+00 147+00 – 165+00 (Heavy Pre-Haul)	Remove all vegetative material with a minimum loss of rock in accordance with Clause 2-9 and 3-23. End haul cut bank ravel and slump areas to a stable waste area in accordance with clause 4-37. Grade and shape road in accordance with Clause 2-5. Construct ditch outs in accordance with Clause 4-29 and 4-38. Apply rock in accordance with Rock List. Compact rock in accordance with Compaction List. Construct and/or clean ditches in accordance with Clause 2-7, 4-37, and 4-38. Pull back sidecast material in accordance with Clause 8-11, 4-37, and 4-38. Install/replace/maintain culverts in accordance with Culvert List.
C-2824	0+00 – 35+90	Grade and shape road in accordance with Clause 2-5. Clean culverts in accordance with Clause 2-6 and Culvert List. Apply rock in accordance with Rock List. Compact rock in accordance with Compaction List.
7+75 Spur	0+00 – 7+75	Remove all vegetative material with a minimum loss of rock in accordance with Clause 2-9 and 3-23. Construct and/or clean ditches in accordance with Clause 2-7, 4-37, and 4-38. Construct ditch outs in accordance with Clause 4-29 and 4-38. Apply rock in accordance with Rock List. Compact rock in accordance with Compaction List.
7+45 Spur	0+00 – 7+45	Remove all vegetative material with a minimum loss of rock in accordance with Clause 2-9 and 3-23. Construct and/or clean ditches in accordance with Clause 2-7, 4-37, and 4-38. Install culvert in accordance with Culvert List. Apply rock in accordance with Rock List. Compact rock in accordance with Compaction List.
5+75 Spur	1+25 – 5+75	Remove all vegetative material with a minimum loss of rock in accordance with Clause 2-9 and 3-23. Construct and/or clean ditches and cut bank ravel in accordance with Clause 2-7, 4-37, and 4-38. Apply rock in

		accordance with Rock List. Compact rock in accordance with Compaction List.
1+25 Spur	0+00 – 1+25	Remove all vegetative material with a minimum loss of rock in accordance with Clause 2-9 and 3-23. Apply rock in accordance with Rock List. Compact rock in accordance with Compaction List.
3+30 Spur	0+00 – 3+30	Remove all vegetative material with a minimum loss of rock in accordance with Clause 2-9 and 3-23. Construct and/or clean ditches and cut bank ravel in accordance with Clause 2-7, 4-37, and 4-38. Apply rock in accordance with Rock List. Compact rock in accordance with Compaction List.
2+00 Spur	0+00 – 2+00	Remove all vegetative material with a minimum loss of rock in accordance with Clause 2-9 and 3-23. Apply rock in accordance with Rock List. Compact rock in accordance with Compaction List.
Total:	256.50 Sta	

Maintenance includes, but is not limited to:

Brushing right-of-way, right-of-way debris disposal, cleaning ditches, constructing ditches, installing additional culverts, widening road segments, constructing headwalls, cleaning culvert inlets and outlets, cross drain culvert replacement, installing erosion control materials and sediment removal structures, spot rocking, grading and shaping existing road surface and turnouts, constructing additional turnouts, compaction of road surface, application of rock, acquisition and application of grass seed and hay.

0-7 POST-HAUL MAINTENANCE

This project includes post-haul road maintenance listed in Clause 9-5 POST-HAUL MAINTENANCE.

0-12 DEVELOP ROCK SOURCE

The Purchaser shall develop rock at Dry Creek Pit. Development will involve crushing 10,000 CY of 4" jaw run rock by July 31, 2024. Work for developing rock sources is listed in Section 6 ROCK AND SURFACING.

0-13 STRUCTURES

The Purchaser shall acquire and install all structures. Requirements for these structures are listed in Section 7 Structures.

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 shall be submitted, in writing, to the Contract Administrator for consideration. The State must approve the submitted plans before road work begins.

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

Unless controlled by construction stakes or design data (plan, profile, and cross-sections), road work shall be performed in accordance with the dimensions shown on the Typical Section Sheet and the specifications within this Road Plan.

1-5 DESIGN DATA

Design data is available upon request at the Department of Natural Resources Olympic Region Office in Forks, WA.

1-6 ORDER OF PRECEDENCE

Any conflict or inconsistency in this Road Plan shall 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.

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

The Purchaser is responsible for the repair or replacement of all materials, roadway infrastructure, and road components damaged during roadwork or operation activities. Repairs and replacements shall be directed by the Contract Administrator. Repairs to structural materials will be made according to the manufacturer's recommendation, and shall not begin without written approval from the Contract Administrator.

1-9 DAMAGED METALLIC COATING

Any 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.

1-12 SURVEY MONUMENTS

At no time during construction, reconstruction, or maintenance shall survey monuments, witness trees, or bearing trees be disturbed or damaged. If damaged or disturbed, Purchaser shall hire a licensed land surveyor to repair, replace, and/or reset them.

1-14 NON-SALE ASSOCIATED CLOSURE

Road work is currently scheduled to take place on the Hoh-Clearwater mainline sometime during the 2023 and 2024 construction seasons, which will result in the road being closed for up to 1 week at a time. State shall give at least 2 weeks notice to Purchaser before closure begins.

SUBSECTION ROAD MARKING

1-15 ROAD MARKING

Road work must be in accordance with the State's marked location. All road work is marked as follows:

- Orange ribbon and paint for construction centerlines.
- Construction stakes for everything else.

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.

SUBSECTION TIMING

1-20 COMPLETE BY DATE

Purchaser shall complete pre-haul road work before the start of timber haul.

1-21 HAUL APPROVAL

The Purchaser shall not use roads under this Road Plan without written approval from the Contract Administrator.

1-22 WORK NOTIFICATIONS

On all roads, the Purchaser shall notify the Contract Administrator a minimum of 3 calendar days before work begins.

1-23 ROAD WORK PHASE APPROVAL

Written approval by Contract Administrator needs to be given at these phases of road work:

- Subgrade approval
- Drainage installation
- Subgrade compaction
- Rock application
- Rock compaction

SUBSECTION RESTRICTIONS

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 State Suspends Operation, the Contract Administrator shall suspend road work or hauling of right-of-way timber, forest products, or rock under the following conditions:

 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, the Purchaser will be required to cease operations, or perform corrective maintenance or repairs, subject to specifications within this Road Plan. Before and during any suspension, the Purchaser shall protect the work from damage or deterioration.

1-32 BRIDGE AND ASPHALT SURFACE RESTRICTION

The use of metal tracked equipment is not allowed on bridge or asphalt surfaces at any time. If Purchaser must run equipment on bridge or asphalt surfaces, then rubber tired equipment or other methods, as approved in writing by Contract Administrator, shall be used.

If tracked equipment is used on bridge or asphalt surfaces, Purchaser shall immediately cease all road work and hauling operations. Any dirt, rock, or other material tracked or spilled on bridge or asphalt surface(s) shall be removed immediately. Any damage to the surface(s) shall be repaired at the Purchaser's expense as directed by the Contract Administrator.

1-33 SNOW PLOWING RESTRICTION

On all roads, snow plowing shall be permitted only after the execution of a Snow Plowing Agreement, which is available from the Contact Administrator upon request. Purchaser shall request a Snow Plowing Agreement each time plowing occurs. If damage occurs while plowing, further permission to plow may be revoked by the Contract Administrator.

SUBSECTION OTHER INFRASTRUCTURE

1-41 REQUIREMENTS FOR PAVED ROAD APPROACHES

Requirements for the paved road approaches:

Purchaser shall build up approaches to allow a smooth grade transition. The top of the rock road surfacing must be kept level with the surface of the paved roads at all times.

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.

C-060 Designated Roads

<u>Road</u>	<u>Stations</u>
Hoh-Clearwater Mainline	0+00 – 1357+50
C-2800	0+00 - 38+35
Copper Pit Access Road	All
H-1000	0+00 - 16+40
H-1500	0+00 - 43+00
Dry Creek Pit Access Roads	All

Red Creek Quarry Access Roads All

2-5 MAINTENANCE GRADING – EXISTING ROAD

On the following road(s), a grader shall be used to shape the existing surface.

Road	Stations	<u>Requirements</u>
C-2800	0+00 – 38+35	Grade/Shape/Compact Existing road surface
C-2820	0+00 – 91+00	Grade/Shape/Compact Existing road surface
C-2824	0+00 – 35+90	Grade/Shape/Compact Existing road surface

2-6 CLEANING CULVERTS

On the following road(s), all inlets and outlets of culverts shall be cleaned before the start of timber haul and shall be subject to the written approval of the Contract Administrator.

Road	<u>Stations</u>
C-2800	As directed by C/A
C-2820	0+00 -91+00 As directed by C/A
C-2824	As directed by C/A

2-7 CLEANING DITCHES, HEADWALLS, AND CATCH BASINS

On the following road(s), Purchaser shall clean and/or construct the ditches, headwalls, and catch basins. Work shall be completed before the start of timber haul and shall be done in accordance with the Typical Section Sheet. Pulling ditch material across the road or mixing in with the road surface will not be allowed. Ditchlines, headwalls, and catch basins shall not encroach into the existing road.

Road	<u>Stations</u>	<u>Left or</u> <u>Right</u>	<u>Comments</u>
C-2820	91+00 – 157+30	R	End haul waste as needed to stable waste area(s)
7+75 Spur	0+00 – 5+00	R	End haul waste as needed to stable waste area(s)
7+45 Spur	0+80 – 1+80	R	End haul waste as needed to stable waste area(s)

5+75 Spur	1+25 – 5+75	R	End haul waste as needed to stable waste area(s)
3+30 Spur	0+75 – 2+00	L&R	End haul waste as needed to stable waste area(s)

2-8 MAINTAINING EROSION CONTROL STRUCTURES

On the following road(s), Purchaser shall clean and maintain all erosion control devices. Work shall be completed before the start of timber haul and shall be done in accordance with all pertaining clauses contained in this Road Plan. Excavated material shall be disposed of in accordance with Clause 4-35 through Clause 4-38.

Road	Stations	Work Needed
C-2800	0+00 - 38+35	As directed by contract administrator.
C-2820	0+00 - 91+00	As directed by contract administrator.
C-2824	0+00 - 35+90	As directed by contract administrator.

2-9 REMOVING VEGETATIVE MATERIAL

On the following road(s), Purchaser shall remove all vegetative material, dirt, mud, and other debris on the existing road surface with a minimum loss of rock. Material removed shall be disposed of in accordance with Clause 3-21 through Clause 3-25 and Clause 4-36 through Clause 4-38. Roads to be shaped in accordance with Typical Sheet specifications.

Road	<u>Stations</u>
C-2820	91+00 – 162+00
7+75 Spur	0+00 – 7+75
7+45 Spur	0+00 – 7+45
5+75 Spur	1+25 – 5+75
1+25 Spur	0+00 – 1+25
3+30 Spur	0+00 – 3+30
2+00 Spur	0+00 – 2+00

SECTION 3 – CLEARING, GRUBBING, AND DISPOSAL

SUBSECTION BRUSHING

3-1 BRUSHING

On the following road(s), vegetative material up to 5 inches in diameter, including limbs, shall be cut as shown on the Brushing Detail. Brushing shall be achieved by mechanical cutting of brush, trees, and branches. Root systems and stumps of cut vegetation shall not be disturbed unless directed by the Contract Administrator.

Road	<u>Stations</u>
C-2820	91+00 – 162+00

3-2 BRUSHING RESTRICTION

Pulling, digging, pushing over, and other non-cutting methods used for vegetation removal shall not be used for brushing. Excavator buckets, log loaders and similar equipment shall not be used for brushing.

3-3 BRUSH REMOVAL

Remove brushing debris from the road surface, ditchlines, and culvert inlets and outlets. Brush should be disposed of so that it will not fall back onto the road prism.

SUBSECTION CLEARING

3-5 CLEARING

Purchaser shall fall all vegetative material larger than 5 inches DBH or over 15 feet high between the marked right-of-way boundaries 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.

3-7 RIGHT-OF-WAY DECKING

Deck all merchantable right-of-way timber. Decks shall be parallel to the road centerline and placed within the cleared right-of-way. Decks shall be free of dirt, limbs and other right-of-way debris, and removable by standard log loading equipment.

3-8 PROHIBITED DECKING AREAS

Right-of-way timber shall not be decked 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 40%.
- Against standing trees unless approved by the Contract Administrator.

SUBSECTION GRUBBING

3-10 GRUBBING

Remove all stumps between the grubbing limits specified on the Typical Section Sheet. Those stumps outside the grubbing limits but with undercut roots shall also be removed. Stump removal shall be accomplished using a hydraulic mounted excavator unless authorized, in writing, by the Contract Administrator. Grubbing shall be completed before starting excavation and embankment.

3-12 STUMP PLACEMENT

Grubbed stumps shall be placed outside of the clearing limits, as directed by the Contract Administrator and in compliance with all other clauses in this road plan. Stumps shall be positioned upright with root wads in contact with the forest floor and on stable locations.

SUBSECTION ORGANIC DEBRIS

3-20 ORGANIC DEBRIS DEFINITION

Organic debris is defined as all vegetative material not eligible for removal by Contract Clauses G-010 Products Sold or G-011 Right To Remove Forest Products And Contract Area, that is larger than one cubic foot in volume within the grubbing Typical Section Sheet.

3-21 DISPOSAL COMPLETION

All disposal of organic debris, shall be completed before the application of rock.

3-23 PROHIBITED DISPOSAL AREAS

Organic debris shall not be deposited in the following areas:

- Within 5 feet of a cross drain culvert.
- Within 50 feet of a live stream, or wetland.
- On road subgrades road prism 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 will fall into the ditch or onto the road surface.
- Against standing timber.

3-24 BURYING ORGANIC DEBRIS RESTRICTED

Organic debris shall not be buried unless otherwise stated in this Road Plan.

3-25 SCATTERING ORGANIC DEBRIS

Organic debris shall be scattered outside of the grubbing limits in accordance with Clause 3-23 unless otherwise detailed in this Road Plan and as directed by the Contract Administrator.

SUBSECTION PILE

3-31 PILING

Organic debris shall be piled no closer than 20 feet from standing timber and no higher than 20 feet in areas specified in Clause 3-22 Designated Waste Area For Organic Debris. Piles shall be free of rock and soil.

SECTION 4 – EXCAVATION

4-1 EXCAVATOR CONSTRUCTION

All roads shall be constructed, reconstructed, and maintained using a track mounted hydraulic excavator unless stated otherwise within this Road Plan, or permission to do otherwise is granted in writing by the Contract Administrator.

4-2 PIONEERING

Pioneering shall not extend past construction that will be completed during the current construction season. Pioneering shall not extend more than 1000 feet beyond completed construction unless approved in writing by the Contract Administrator. In addition, the following actions shall be taken as pioneering progresses:

- Drainage shall be provided on all uncompleted construction.
- Road pioneering operations shall not undercut the final cut slope or restrict drainage.
- Culverts at live stream crossings shall be installed during pioneering operations prior to embankment.

4-3 ROAD GRADE AND ALIGNMENT STANDARDS

The following road grade and alignment standards shall be followed:

 Grade and alignment shall have smooth continuity, without abrupt changes in direction.

- Maximum grade shall not exceed 18 percent favorable and 16 percent adverse.
- Minimum curve radius is 60 feet at centerline.
- Sag vertical curves shall not have a grade change greater than 5% in 100 feet.
- Crest vertical curves shall not have a grade change greater than 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. The following standards for switchbacks shall be followed:

- Adverse grades on switchbacks shall not exceed 10%.
- Favorable grades through switchbacks shall not exceed 12%.
- Transition grades entering and leaving switchbacks shall not exceed a 5% grade change.
- Transition grades required to meet switchback grade limitations shall be constructed on the tangents preceding and departing from the switchbacks.

4-5 CUT SLOPE RATIO

Unless construction staked or designed excavation slopes shall be constructed no steeper than shown on the following table:

	<u>Excavation</u>	Excavation Slope
Material Type	Slope Ratio	Percent
Common Earth (on side slopes up to 55%)	1:1	100
Common Earth (56% to 70% side slopes)	³ / ₄ :1	133
Common Earth (on slopes over 70%)	1⁄₂:1	200
Fractured or loose rock	1⁄₂:1	200
Hardpan or solid rock	1/4:1	400

4-6 EMBANKMENT SLOPE RATIO

Unless construction staked or designed embankment slopes shall be constructed no steeper than shown on the following table:

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

4-7 SHAPING CUT AND FILL SLOPE

Excavation and embankment slopes shall be constructed 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.

Curve widening is modified as follows:

<u>Road</u>	<u>Stations</u>	Curve Widening (ft)
C-2820	141+75 – 144+00	8'

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.

4-10 WIDEN THE EXISTING SUBGRADE

On the following road(s), the Purchaser shall widen the subgrade and fill slopes to the dimensions shown on the Road Widening Detail Sheets. If necessary, the Purchaser shall reconstruct excavation slopes to provide sufficient width for the road surface and any ditches. Excavated slopes shall be consistent with Clause 4-5. Pulling excavation material across the road or mixing in with the existing road surface is not allowed.

<u>Road</u>	<u>Stations</u>
C-2820	103+50 – 104+50

4-11 KEYED EMBANKMENT

On the following road(s), embankments shall be keyed into the native slope in accordance with the Typical Embankment Key Detail Sheet.

Road	<u>Stations</u>
C-2820	145+00 – 146+20

4-12 FULL BENCH CONSTRUCTION

Where side slopes exceed 45%, Purchaser shall use full bench construction for the entire subgrade width except as construction staked or designed.

SUBSECTION INTERSECTIONS, TURNOUTS AND TURNAROUNDS

4-21 TURNOUTS

Turnouts shall be intervisible with maximum of 1,000 feet between turnouts unless shown otherwise on drawings. Locations shall be adjusted to fit the final subgrade alignment and sight distances. Turnout locations shall be subject to written approval by the Contract Administrator.

4-22 TURNAROUNDS

Turnarounds shall be no larger than 50 feet long and 30 feet wide. Locations shall be subject to written approval by the Contract Administrator.

SUBSECTION DITCH CONSTRUCTION

4-25 DITCH CONSTRUCTION AND RECONSTRUCTION

The Purchaser shall construct ditches into the subgrade as specified on the Typical Section Sheet. Excavated slopes shall be consistent with Clause 4-5 Cut Slope Ratio. Ditches shall be constructed concurrently with construction of the subgrade.

4-27 DITCH WORK - MATERIAL USE PROHIBITED

On all roads, pulling ditch material across the road or mixing in with the road surface will not be allowed. Excavated material shall be disposed of as specified in Clause 4-36 through Clause 4-38.

4-28 DITCH DRAINAGE

Ditches must drain to cross-drain culverts or ditchouts.

4-29 DITCHOUTS

Ditchouts shall be constructed at locations shown on the list below, and as needed to fit as built conditions. Ditchouts shall be constructed in a manner that diverts ditch water onto the forest floor and shall have excavation backslopes no steeper than a 1:1 ratio. L or R denotes ditchout left or ditchout right heading in.

<u>Road</u>	<u>Stations</u>
C-2820	95+00R, 135+50R, 142+00L 157+30R
7+75 Spur	5+00R

SUBSECTION WASTE MATERIAL (DIRT)

4-35 WASTE MATERIAL DEFINITION

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

4-36 DISPOSAL OF WASTE MATERIAL

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

4-37 WASTE AREA LOCATION

Waste material shall be deposited in the listed designated areas. The amount of material to be contained in a waste area shall be at the discretion of the Contract Administrator. Note: All amount values are estimated bank yards.

Waste Area Location	Waste Generated From Road	Estimated Volume	<u>Waste Area</u> Permitted Vol.
<u>Ecourion</u>	<u>i toda</u>		r ommad vor.
WA-1 & WA-2	C-2820	4000	500, 8000 CY
WA-2	5+75 Spur	1,000	8000 CY
	Total Estimated Waste:	5000 CY	

4-38 PROHIBITED WASTE DISPOSAL AREAS

Waste material shall not be deposited in the following areas:

- Within 5 feet of a cross drain culvert. Within 50 feet of a live stream or wetland.
- Within a riparian management zone.
- On side slopes steeper than 45%.
- In locations that interfere with the construction of the road prism.
- In locations that impede drainage.
- Within the operational area for cable landings.
- · Against standing timber.

4-39 WASTE AREA COMPACTION

Contract No. 30-102254

Excavated material may be deposited adjacent to the road prism on side slopes up to 45% if the waste material is compacted and free of debris. On side slopes of 45% or more, all excavation shall be end hauled or pushed to designated waste areas. All waste material shall be compacted. The minimum acceptable compaction is achieved by placing embankments in 2 foot or shallower lifts and routing excavation equipment over the entire width of the lifts, with the exception of side hill embankments too narrow to accommodate excavation equipment which may be placed by end-dumping or sidecasting until sufficiently wide to support the equipment.

SUBSECTION BORROW

4-45 SELECT BORROW

Select borrow shall consist of granular material, either naturally occurring or processed, and shall contain no more than 5% clay, organic debris, or trash by volume.

4-46 COMMON BORROW

Common borrow shall consist of soil, and/or aggregate that is non-plastic and shall contain no more than 5% clay, organic debris, or trash by volume. The material is considered non-plastic if the fines (passes the U.S. #40 sieve) in the sample cannot be rolled between the hand and a smooth surface into a thread at any moisture content.

4-47 NATIVE MATERIAL

Native material shall be excavated material free of organic debris, trash, and rocks greater than 12" in any dimension.

4-48 BORROW MATERIAL

Borrow material shall contain no more than 5% clay, organic debris, or trash by volume.

SUBSECTION SHAPING

4-55 ROAD SHAPING

The road subgrade and surface shall be shaped as shown on the Typical Section Sheet. The subgrade and surface shape shall ensure runoff in an even, un-concentrated manner, and shall be uniform, firm, and rut-free.

4-56 DRY WEATHER SHAPING

At any time of year, the Contract Administrator may require the application of water to facilitate shaping activities. The method of water application is subject to written approval by the Contract Administrator.

SUBSECTION COMPACTION

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. A plate compactor must be used for areas specifically requiring keyed embankment construction, and embankment segments too narrow to accommodate 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. Purchaser

shall obtain written approval from the Contract Administrator for subgrade compaction before placement of rock.

4-62 DRY WEATHER COMPACTION

At any time of the year, the Contract Administrator may require the application of water to facilitate compaction activities. The method of water application is subject to written approval by the Contract Administrator.

4-63 EXISTING SURFACE COMPACTION

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

4-64 WASTE MATERIAL COMPACTION

All waste material shall be compacted by running equipment over it or bucket tamping.

4-65 CULVERT BACKFILL COMPACTION

Culvert backfills shall be accomplished by using a jumping jack compactor, performing at least 2 passes per lift, in lifts not to exceed 8 inches.

4-66 COMPACTION BY METHOD

Compaction shall consist of three complete passes over the entire width of each lift with a vibratory drum roller weighing a minimum of 6,000 pounds at a maximum operating speed of 3 mph. For embankment segments too narrow to accommodate a drum roller, a plate compactor shall be used.

SECTION 5 – DRAINAGE

5-4 PUNCHEON RESTRICTED

At no time shall puncheon be used in the subgrade, unless approved by the Contract Administrator.

SUBSECTION CULVERTS

5-5 CULVERTS

Culverts shall be installed as part of this contract. Culverts shall be installed concurrently with subgrade work and shall 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 shall be adjusted to fit as-built conditions and shall not terminate directly on unprotected soil. Culverts shall be new and meet the material specifications in Clauses 10-15 through 10-24.

5-10 STATE SUPPLIED CULVERTS

The following culverts will be supplied by the state and are available at:

Road	<u>Size</u>
C-2820 sta 91+00	18 x 30

5-11 UNUSED MATERIALS STATE PROPERTY

On required roads, any materials listed on the Culvert List and Rock List that are not installed shall become the property of the State. Purchaser shall stockpile materials as directed by the Contract Administrator.

5-12 CONTINGENCY CULVERTS

The following culverts will be supplied by the Purchaser and will be available for installation on any road listed in the TYPICAL SECTION SHEET as directed by the Contract Administrator. Unused pipes will be located at <u>Sawmill at MP 12.0 Hoh-Clearwater Mainline</u> or as directed by C/A prior to contract expiration.

Road	<u>Size</u>
As Directed	
By C/A	(1) 18" x 30'

SUBSECTION CULVERT INSTALLATION

5-15 CULVERT INSTALLATION

Installation shall be in accordance with the Typical Cross Drain Culvert Installation Detail, Typical Type Ns Np Culvert Installation Detail, the National Corrugated Metal Pipe Association's "Installation Manual for Corrugated Steel Drainage Structures", and the Corrugated Polyethylene Pipe Association's "Recommended Installation Practices for Corrugated Polyethylene Pipe and Fittings". Corrugated Polyethylene pipe shall be installed in a manner consistent with the manufacturer's recommendations.

5-16 APPROVAL FOR LARGER CULVERT INSTALLATION

Installation of culverts 30 inches in diameter and over shall be subject to written approval by the District Engineer or their designee before backfilling.

5-17 CROSS DRAIN SKEW AND SLOPE

Cross drains on road grades in excess of 3% shall 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. Where the cross drain is at the low point in the road, culverts shall not be skewed. Cross drain culverts shall 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 shall be installed with a depth of cover of not less than 18 inches of compacted depth over the top of the culvert at the shallowest point. Stream crossing culverts shall be installed with a depth of cover specified in the Engineer's design, Type Ns Np Typical Detail Sheet, or to the minimum depth recommended by the culvert manufacturer for the type of cover material over the pipe, whichever is greater.

SUBSECTION ENERGY DISSIPATERS

5-20 ENERGY DISSIPATERS

Energy dissipaters shall be installed to prevent erosion and are subject to approval by the Contract Administrator. Rock shall weigh at least 10 pounds and be placed by zero-drop-height method. Energy dissipater shall extend a minimum of ³/₄ foot to each side of the culvert at the outlet and a minimum of 2 feet beyond the outlet.

5-21 DOWNSPOUTS AND FLUMES

Downspouts and flumes longer than 10 feet shall be staked on both sides at maximum intervals of 10 feet with 6-foot heavy-duty steel posts or 1 $\frac{1}{2}$ " X 3/16" angle iron, and

fastened securely to the posts with No. 10 galvanized smooth wire, or bolted using minimum 5/16" bolts and 2 washers per bolt, in accordance with the Culvert Installation Typical Details Page.

SUBSECTION CATCH BASINS, HEADWALLS, AND ARMORING

5-25 CATCH BASINS

Catch basins shall be constructed to resist erosion. Approximate dimensions are 1-2 feet deep, 1-2 feet wide, and 2-4 feet long.

5-26 HEADWALLS FOR CROSS DRAIN CULVERTS

Headwalls shall be constructed in accordance with the Typical Cross Drain Culvert Installation Detail at all cross drain culverts that specify the placement of rock. Rock used for headwalls shall consist of oversize or quarry spall material. Rock shall be placed on shoulders, slopes, and around culvert inlets and outlets. Rock shall not restrict the flow of water into culvert inlets or catch basins. No end dumping of rock is allowed.

5-27 ARMORING FOR STREAM CROSSING CULVERTS

At the following culvert(s), rip rap shall be set in place immediately following construction of the embankment. Rock shall be placed on shoulders, slopes, and around culvert inlets and outlets as designated on the Typical Type Ns Np Culvert Installation Detail as directed by the Contract Administrator. Rock shall not restrict the flow of water into culvert inlets or catch basins. Rock shall be set in place by machine. Placement shall be by zero-drop-height method only. No placement by end dumping or dropping of rock shall be allowed.

Road	<u>Stations</u>	Rock Type
C-2820	127+60	LL rip-rap

SECTION 6 - ROCK AND SURFACING

SUBSECTION ROCK SOURCE

6-2 ROCK SOURCE ON STATE LAND

Rock used in accordance with the quantities on the Rock List may be obtained from the following source(s) on state land at no charge to the Purchaser. Use of material from any other source must have prior written approval from the Contract Administrator. If other operators are using, or desire to use, the rock source(s), a joint operating plan shall be developed. All parties shall follow this plan. The Purchaser shall notify the Contract Administrator a minimum of 5 calendar days before starting any operations in the listed locations.

<u>Source</u>	<u>Location</u>	Rock Type
Dry Creek Pit	T26N R11W Sec. 15	4" Jaw Run, Pit Run, Oversize
Red Creek Quarry	T27N R11W Sec. 34	LL Rip-Rap
Copper Pit	T25N R11W Sec 18	1-1/2" Minus Crushed
	T25N R12W Sec 13	

6-3 ROCK SOURCE STATE LAND, EXISTING STOCKPILE

Rock used in accordance with the quantities on the Rock List may be obtained from the following existing stockpile(s) on state land at no charge to the Purchaser. Extra rock must be approved by Contract Administrator.

<u>Source</u>	<u>Location</u>	Quantity (yd³)
1-1/2" Minus	Copper Pit	750 yd ³
4" Jaw Run	Dry Creek Pit	6,060 yd ³

6-5 ROCK FROM COMMERCIAL SOURCE

Rock used in accordance with the quantities on the Rock List may be obtained from any commercial source at the Purchaser's expense. Rock sources will be subject to written approval by the Contract Administrator before their use.

SUBSECTION ROCK SOURCE DEVELOPMENT

6-10 ROCK SOURCE DEVELOPMENT PLAN BY STATE

All rock source development and use shall be in accordance with a written Rock Source Development and Reclamation Plan prepared by the State and included in this Road Plan. Rock source operations shall be conducted as directed by the Contract Administrator and in accordance with the plan. Upon completion of operations, the rock source shall be left in the condition specified in the Rock Source Development and Reclamation Plan, and approved in writing by the Contract Administrator. The Purchaser shall notify the Contract Administrator a minimum of 5 calendar days before starting any operations in the rock source.

6-12 ROCK SOURCE SPECIFICATIONS

Rock sources shall be in accordance with the following unless otherwise specified in Rock Source Development and reclamation plan:

Pit walls shall not be undermined or over-steepened. The maximum slope of the
walls shall be consistent with recognized engineering standards for the type of
material being excavated in accordance with the following table:

Material	Maximum Slope Ratio (Horiz.:Vert.)	Maximum Slope Percent
Sand	2:1	50
Gravel	1.5:1	67
Common Earth	1:1	100
Fractured Rock	0.5:1	200
Solid Rock	0:1	vertical

- Pit walls shall be maintained in a condition to minimize the possibility of the walls sliding or failing.
- The width of pit benches shall be a minimum of 1.5 times the maximum length of the largest machine used.
- The surface of pit floors and benches shall be uniform and free-draining at a minimum 2% outslope gradient.

- All operations shall be carried out in compliance with all regulations of the Regulations and Standards Applicable to Metal and Nonmetal Mining and Milling Operations (30 CFR) U.S. Department of Labor, Mine Safety and Health Administration and Safety Standards for Construction Work (296-155 WAC), Washington Department of Labor and Industries.
- Block all vehicle access to the top of the pit faces.

6-15 REQUIRED ROCK SOURCE WORK

The following rock source work is required. Work is to be done according to the approved Rock Source Development And Reclamation Plan and as directed by the Contract Administrator.

<u>Site</u>	<u>Requirements</u>
Dry Creek Pit	Crush 10,000 CY of 4" Jaw Run by July 31, 2024.

SUBSECTION ROCK MANUFACTURE

6-20 ROCK CRUSHING OPERATIONS

Rock crushing operations must conform to the following specifications:

- Operations and placement of oversize material must be conducted in or near the rock source site, as approved in writing by the Contract Administrator.
- The crushing operation must be concluded within 60 working days from the time it begins.
- All testing and operations must be performed in accordance with the attached ROCK CRUSHING COMPLIANCE PROCEDURE.

6-23 ROCK GRADATION TYPES

Purchaser shall manufacture rock in accordance with the types and amounts listed in the Manufacturing list below. Rock must meet the following specifications for gradation and uniform quality during manufacture and placement into a stockpile.

Rock Type	<u>Amount</u>
4" Jaw Run	10,000 CY

6-24 ROCK CRUSHING COMPLIANCE PROCEDURE

Phase II. Production

The Purchaser will notify district engineer or C/A before starting crushing. DNR will conduct a visual inspection to ensure that rock stays in spec. Inspections will take place according to the following schedule:

- After the first 500 yards
- After every 2,000 yards thereafter.

- a) Any time a sample is out of spec, but is within 5%*, the Purchaser will be notified and a second sample will be taken later in the day. If the second sample meets specifications, the rock crushed during that day will be accepted. If the second sample also fails to meet spec, none of the rock crushed since the last acceptable test will be counted toward the amount to be crushed.
- b) Purchaser is strongly encouraged to take their own samples regularly and keep their operations in spec to avoid unnecessary expenses.

SUBSECTION ROCK GRADATIONS

6-29 1 ½-INCH MINUS CRUSHED ROCK

% Passing 1 ½" square sieve	100%
% Passing 1" square sieve	50 - 85%
% Passing U.S. #4 sieve	30 - 50%
% Passing U.S. #40 sieve	16% maximum
% Passing U.S. #200 sieve	5% maximum

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

6-37 4-INCH JAW RUN ROCK

% Passing 4" square sieve	95%
% Passing U.S. #40 sieve	16% maximum
% Passing U.S. #200 sieve	5% maximum

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.

6-50 LIGHT LOOSE RIP RAP

Rip rap shall consist of angular, hard, sound, and durable stone. It shall be free from segregation, seams, cracks, and other defects. Light loose rip rap shall be free of rock fines, soil, organic debris or other extraneous material, and shall meet the following requirements:

At Least/Not More Than	Weight Range	Size Range
20% / 90%	300 lbs. to 1 ton	12"- 36"

6-52 OVERSIZE

% Passing 8" square sieve	100%
% Passing 4" square sieve	0%

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

SUBSECTION ROCK MEASUREMENT

6-55 ROCK APPLICATION MEASURED BY COMPACTED DEPTH

Measurement of specified rock depths are defined as the compacted depth(s) using the compaction methods required in this Road Plan. Estimated quantities specified in the Rock List are estimated truck 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.

SUBSECTION ROCK APPLICATION

6-70 APPROVAL BEFORE ROCK APPLICATION

Subgrade drainage installation including grading and compaction, shall be completed and approved in writing by the Contract Administrator, before rock application.

6-71 ROCK APPLICATION

Rock shall be applied in accordance with the specifications and quantities shown on the Rock List. Rock shall be spread, shaped, and compacted full-width concurrent with rock hauling operations. Rock shall be compacted in accordance with Compaction List, in lifts not to exceed 6 inches.

6-72 ROCK APPLICATION AFTER HAULING

On the following road(s), upon completion of all hauling operations, Purchaser shall apply 1 ¹/₂" minus crushed rock in accordance with the quantities shown on the Rock List.

Road	<u>Stations</u>	<u>Amount</u>
C-2800	0+00 – 38+00	50 yd ³
C-2820	0+00 – 91+00	400 yd ³
C-2820	91+00 – 162+00	Jaw Run 100 yd ³

6-73 ROCK FOR WIDENED PORTIONS

Turnarounds, turnouts, and areas with curve widening shall have rock applied to the same depth and specifications as the traveled way.

6-78 ROCK FOR SPOT PATCHING

Rock for spot patching shall be applied before any grading is done and before any rock lifts are applied. Once applied, spot patches shall be graded into the existing running surface.

SECTION 7 – STRUCTURES

SUBSECTION STREAM CROSSING STRUCTURES GENERAL

7-5 STRUCTURE DEBRIS

The Purchaser shall ensure that debris from the installation or removal of structures does not enter any stream. Components removed from the existing structures(s) shall be placed at designated site(s), as directed in writing by the Contract Administrator. The Purchaser is responsible for maintaining a clean jobsite, with all materials stored away from any high water mark or other area presenting a risk of the materials entering a stream. Debris entering any stream shall be removed immediately and placed in the site(s) designated for stockpiling or disposal. The Purchaser is responsible for retrieving all material carried downstream from the jobsite by the stream current.

7-6 STREAM CROSSING INSTALLATION

Installation of stream crossing structures shall be in accordance with the manufacturer's requirements, and as directed by the District Engineer or their designee.

7-7 BANK PROTECTION FOR STREAM CROSSING STRUCTURES

Bank protection shall be designed and constructed to prevent the undermining of the structure.

SUBSECTION ACCEPTANCE

7-20 REQUIRED NOTIFICATION AND APPROVAL

Purchaser shall provide the District engineer or their designee 3 day notification prior to beginning large culvert installation on the C-2820. Purchaser shall receive approval for completed road work on the C-2820 roads from the District engineer or their designee prior to log haul on those roads.

SUBSECTION LARGE CULVERTS

7-55 LARGE CULVERT INSTALLATION

On the following road(s), Purchaser shall install large culverts as specified below. The installation of the culvert shall follow the appropriate detail sheet. Culvert designs shall meet or exceed the following specifications:

Road	C-2820	
Station	127+60	
<u>Type</u>	Round	
Material and Coating Type*	Aluminized or Plastic	
Span (in.)	36"	
Rise (in.)	36"	
Length (ft.)	50'	
Depth of Cover Material (ft.)	3'	
End design	Round	
<u>Corrugations</u>	2 ² / ₃ " X ¹ / ₂ "	
Gauge	14	
Detail Sheet	127+60	

^{*} See Clause10-15 Corrugated Steel Culvert or Clause 10-18 Corrugated Steel Structural Plate

7-57 CULVERT SHAPE CONTROL

Purchaser shall monitor the culvert shape during backfill and compaction. Special attention shall be paid to maintaining the structure's rise dimensions, concentricity and smooth, uniform curvature. If compaction methods are resulting in peaking and/or deflection of the culvert, Purchaser shall, in consultation with the District Engineer or

their designee, modify their compaction method to achieve the appropriate end-result. The National Corrugated Steel Pipe Association "Installation Manual for Corrugated Steel Pipe, Pipe Arches, and Structural Plate" includes guidance on how to monitor culvert shape control and recommends corrective actions to take when shape control problems arise.

SECTION 8 - EROSION CONTROL

8-1 SEDIMENT CONTROL STRUCTURES

On the following road(s), Purchaser shall install sediment control structures as listed below.

Road	<u>Stations</u>	Comments
C-2820	127+80	Add settling ponds and silt fence in ditch at outlet

8-2 PROTECTION FOR EXPOSED SOIL

Purchaser shall furnish and evenly spread a 3-inch layer of straw to all exposed soils at stream culvert installations. Soils shall not be allowed to sit exposed during any rain event.

SUBSECTION REVEGETATION

8-15 REVEGETATION

Purchaser shall grass seed and hay mulch all exposed soils including, but not limited to, stream culverts, waste areas, sidecast pull back areas, stream crossing removals, bridge installations, and other areas directed by the Contract Administrator. Revegetation of exposed soils shall be accomplished by manual dispersal of grass seed unless otherwise detailed in this Road Plan. Other methods of revegetation must be approved in writing by the Contract Administrator.

8-16 REVEGETATION SUPPLY

All seed, mulch, hay, matting, etc. will be provided by the Purchaser.

8-17 REVEGETATION TIMING

Purchaser shall perform revegetation during the first available opportunity. Soils shall not be allowed to sit exposed for longer than one month without receiving revegetation treatment unless otherwise approved in writing by the Contract Administrator. Soils shall not be allowed to sit exposed during any rain event.

8-18 PROTECTION FOR SEED

Purchaser shall provide a protective cover over the revegetated area. The protective cover may consist of, but not be limited to, such items as dispersed hay mulch 3" thick or jute matting.

8-19 ASSURANCE FOR SEEDED AREA

The Purchaser shall be responsible to ensure a uniform and dense crop of grass. The Purchaser shall reapply the seed and/or mulch in areas that have been damaged through any cause, before approval from the Contract Administrator. The Purchaser

shall restore eroded or disturbed areas, clean up and properly dispose of eroded materials, and reapply the seed and/or mulch at no additional cost to the state.

SUBSECTION SEED, FERTILIZER, AND MULCH

8-25 GRASS SEED

Purchaser shall evenly spread the seed mixture listed below on all exposed soils at a rate of 60 pounds per acre of exposed soil.

Seed S	<u>Species</u>	% by Weight
•	Perennial Ryegrass	40.00
•	Creeping Red Fescue	40.00
•	White Dutch Clover	10.00
•	Colonial Bentgrass	10.00

SECTION 9 - POST-HAUL ROAD WORK

SUBSECTION STRUCTURES

9-3 REMOVAL OF CULVERT MATERIAL FROM STATE LAND

Culvert material removed from roads becomes the property of the Purchaser and must be removed from state land.

SUBSECTION POST-HAUL MAINTENANCE

9-5 POST-HAUL MAINTENANCE

Post-haul maintenance shall be performed in accordance with the Forest Access Road Maintenance Specifications and as specified below.

Road	<u>Stations</u>	Additional Requirements
All	All	Clean culverts, clean ditches, grade road shape and compact
		as directed by the Contract Administrator
C-2800	As Directed	Apply post haul rock as per Clause 6-72.
C-2820	As Directed	Apply post haul rock as per Clause 6-72.

SUBSECTION POST-HAUL LANDING MAINTENANCE

9-10 LANDING DRAINAGE

On all roads, Purchaser shall provide for drainage of the landing surface as approved in writing by the Contract Administrator.

9-11 LANDING EMBANKMENT

On all roads, landing embankments shall be sloped to original construction specifications.

SECTION 10 MATERIALS

SUBSECTION GEOTEXTILES

10-6 GEOTEXTILE FOR TEMPORARY SILT FENCE

Geotextiles shall meet the following minimum requirements for strength and property qualities, and shall be designed by the manufacturer to be used for filtration. Woven slit-film geotextiles will not be allowed. Material shall be free of defects, cuts, and tears.

	ASTM Test	<u>Requirements</u>
Туре		Unsupported between posts
Apparent opening size	D 4751	No. 30 max., No. 100 min.
Water permittivity	D 4491	0.02 sec ⁻¹
Crab topoile etrapath	D 4632	180 lb in machine direction,
Grab tensile strength	D 4032	100lb in cross-machine direction>
Grab tensile elongation	D 4632	30% max. at 180 lb or more
Ultraviolet stability	D 4355	70% retained after 500 hours of exposure

SUBSECTION CULVERTS

10-15 CORRUGATED STEEL CULVERT

Metallic coated steel culverts shall meet AASHTO M-36 (ASTM A-760) specifications. Culverts shall be aluminized (aluminum type 2 coated meeting AASHTO M-274.

10-16 CORRUGATED ALUMINUM CULVERT

Aluminum culverts shall meet AASHTO M-196 (ASTM A-745) specifications.

10-17 CORRUGATED PLASTIC CULVERT

Polyethylene culverts shall meet AASHTO M-294 specifications. Culverts shall be Type S – double walled with a corrugated exterior and smooth interior.

10-20 FLUME AND DOWNSPOUT

Downspouts and flumes shall meet the AASHTO specification designated for the culvert. Plastic downspouts and flumes shall be Type S – double walled with a corrugated exterior and smooth interior.

10-21 METAL BAND

Metal coupling and end bands shall meet the AASHTO specification designated for the culvert and shall have matching corrugations. On culverts 24 inches and smaller, bands shall have a minimum width of 12 inches. On culverts over 24 inches, bands shall have a minimum width of 24 inches.

10-22 PLASTIC BAND

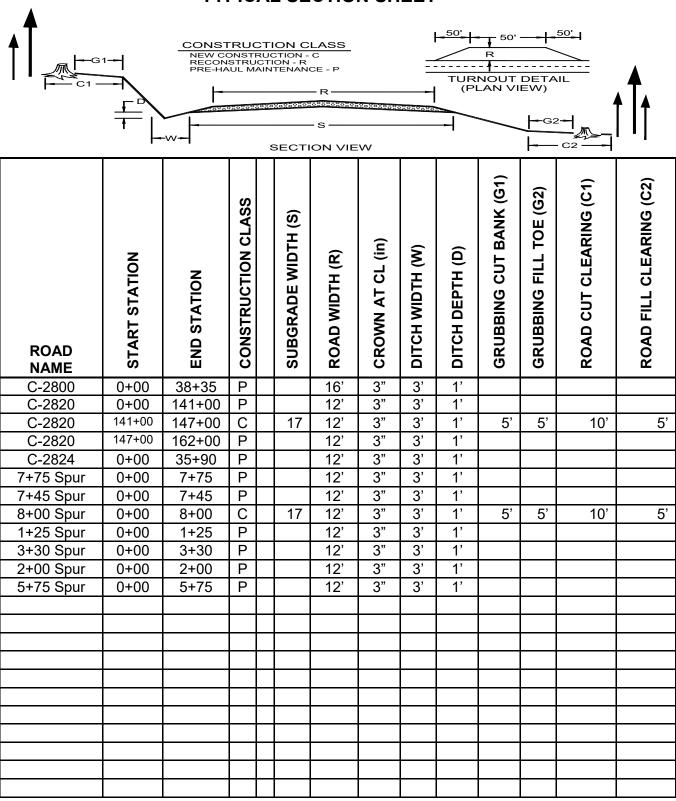
Plastic coupling and end bands shall meet the AASHTO specification designated for the culvert. Only fittings supplied or recommended by the culvert manufacturer shall be used. Couplings shall be split coupling band. Split coupling bands shall have a minimum of four corrugations, two on each side of the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

10-24 GAGE AND CORRUGATION

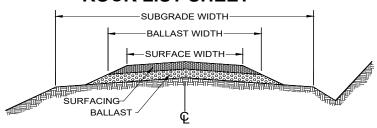
Metal culverts shall conform to the following specifications for gage and corrugation as a function of diameter.

<u>Diameter</u>	<u>Gage</u>	<u>Corrugation</u>
18"	16 (0.064")	2 ² / ₃ " X ¹ / ₂ "
24" to 42"	14 (0.079")	2 ² / ₃ " X ¹ / ₂ "
48" to 54"	12	5" X 1"
60" +	10	5" X 1"

TYPICAL SECTION SHEET



ROCK LIST SHEET



SECTION VIEW

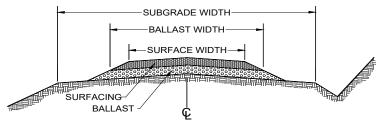
- 1. Rock quantities, subtotals and totals are "truck measure" estimates. Rock shall be applied to at least the depths listed.
 - 2. All depths are compacted depths.
 - 3. Rock slopes shall be $1\frac{1}{2}$ (H): 1 (V).
 - 4. All rock sources are subject to approval by the Contract Administrator.
- 5. Pitrun is defined as pitrun or ballast per Line 6. Crushed is defined as any crushed rock from ¼" minus to 4" minus per Line 6. Oversize is defined as oversize, quarry spalls, light loose rip rap, or heavy loose rip rap per Line 6.

6. Rock sources= 1: Dry Creek Pit Run, 2: Dry Creek 4" Jaw Run, 3: Dry Creek Oversize, 4: Red Creek LL rip-rap,

5: Copper Pit 1-1/2" Minus, 6: Native Ballast

ROAD NAME	START STATION	END STATION	SUBGRADE WIDTH (ft)	Pitrun SOURCE	Pitrun WIDTH (ft)	Pitrun DEPTH (in)	Pitrun Quantity(yd³/sta)	Pitrun SUBTOTAL(yd³)	Crushed SOURCE	_	Crushed DEPTH (in)	Crushed Quantitv(vd³/sta)	Crushed Subtotal(yd³)	Oversize/ Rip rap	Oversize/Rip Rap Quantitv(vd³)
C-2800 Misc	0+00	38+35							5	16'			100		
Post Haul	0100	30133							5	16'			50		
C-2820									9	10			00		
Misc	0+00	91+00							5	16'			100		
Lift	91+00	141+00							2	12'	8"	45	2250		
Lift	141+00	147+00							2	16'	15"	90	540		
Fill	145+00	146+20	17	6	17	XX	XX	1400							
Keyed Rip RapToe	145+00	146+20												4	250
Lift	146+20	164+00							2	12'	12"	70	1250		
Culvert	106+75			1				20							
Culvert	111+00			1				20							
Culvert	118+00			1				20							
Culvert	121+40			1				40						3	10
Culvert	127+60			1				100						4	50
Culvert	128+60			1				20							
Culvert	150+60			1				20							
Post Haul	0+00	91+00							5	16'			400		
Post Haul	91+00 162+00								2				100		
Totals:		1400	CY N	lativ	e Bal	last 2	40 CY	Pitrun		4140	jaw rı	un 65	0 1-1/2"		310

ROCK LIST SHEET CONTINUED



SECTION VIEW

- 1. Rock quantities, subtotals and totals are "truck measure" estimates. Rock shall be applied to at least the depths listed.
 - 2. All depths are compacted depths.
 - 3. Rock slopes shall be $1\frac{1}{2}$ (H): 1 (V).
 - 4. All rock sources are subject to approval by the Contract Administrator.
- 5. Pitrun is defined as pitrun or ballast per Line 6. Crushed is defined as any crushed rock from ¼" minus to 4" minus per Line 6. Oversize is defined as oversize, quarry spalls, light loose rip rap, or heavy loose rip rap per Line 6.

6. Rock sources= 1: Dry Creek Pit Run, 2: Dry Creek 4" Jaw Run, 3: Dry Creek Oversize, 4: Red Creek LL rip-rap, 5: Copper Pit 1-1/2" Minus

ROAD NAME	START STATION	END STATION	SUBGRADE WIDTH (ft)	Pitrun SOURCE	Pitrun WIDTH (ft)	Pitrun DEPTH (in)	Pitrun Quantity(yd³/sta)	Pitrun SUBTOTAL(yd³)	Crushed SOURCE	Crushed WIDTH (ft)	Crushed DEPTH (in)	Crushed Quantity(yd³/sta)	Crushed Subtotal(yd³)	Oversize/ Rip rap	Oversize/Rip Rap Quantity(yd³)
7+75 Spur															
Lift	0+00	7+75							2	12'	12	70	540		
7+45 Spur															
Lift	0+00	7+45							2	12'	12"	70	520		
Culvert	5+25			1				20							
8+00 Spur															
Lift	0+00	8+00		1	12	18"	110	880							
Landing	4+75			1				50							
Landing	8+00			1				50							
1+25 Spur															
Lift	0+00	1+25							2	12'	12"	70	90		
2+00 Spur															
Lift	0+00	2+00							2	12'	12"	70	140		
5+75 Spur															
Lift	0+00	5+75							2	12'	12"	70	400		
3+30 Spur															
lift	0+00	3+30							2	12'	12"	70	230		
C-2824															
Misc	0+00	35+90							5	16'			100		
Totals:						1,00	0 CY F	Pitrun	19	920 CY	Jaw Ru	n, 100	CY 1 ½"		

ROCK LIST SHEET GRAND TOTAL

Source	Quantity (yd³)
1: Dry Creek Pit Pitrun	1,240
2: Dry Creek Pit 4" Jaw Run	6060
3: Dry Creek Pit Oversize	10
4: Red Creek Quarry Light Loose Rip	300
5: Copper Pit 1½" minus	750
6: Native Ballast	1400

CULVERT LIST

				CUL	VL	-1/1	LIS) I	
ROAD NAME	STATION	CULVERT DIAMETER (in)	CULVERT LENGTH (ft)	FLUME LENGTH (ft)		RIP RAP - INLET (cy)	RIP RAP – OUTLET (cy)	BACKFILL MATERIAL	NOTES
C-2820	101+00	18	40					PR	New pipe installation
C-2820	106+75	18	30					PR	Replace existing pipe
C-2820	111+00	18	30					PR	Replace existing pipe, Tie into existing flume
C-2820	118+00	18	30					PR	Replace existing pipe, Tie into existing flume
C-2820	121+40	18	30				10	PR	New pipe installation
C-2820*	127+60	36	50				50	PR	Replace existing Np pipe
C-2820	128+60	18	26					PR	Replace existing pipe
C-2820	150+60	18	30					PR	Replace existing pipe
7+45 Spur	5+25	18	26					PR	New pipe installation
Contingency		18	30					PR	As needed/directed by C/A
									20

All rip rap shall be Oversize unless specified in the Rock List, or in the field.
All backfill shall be native material (NT) unless specified otherwise. CR= 1 1/4"- crushed rock, PR = pit run.

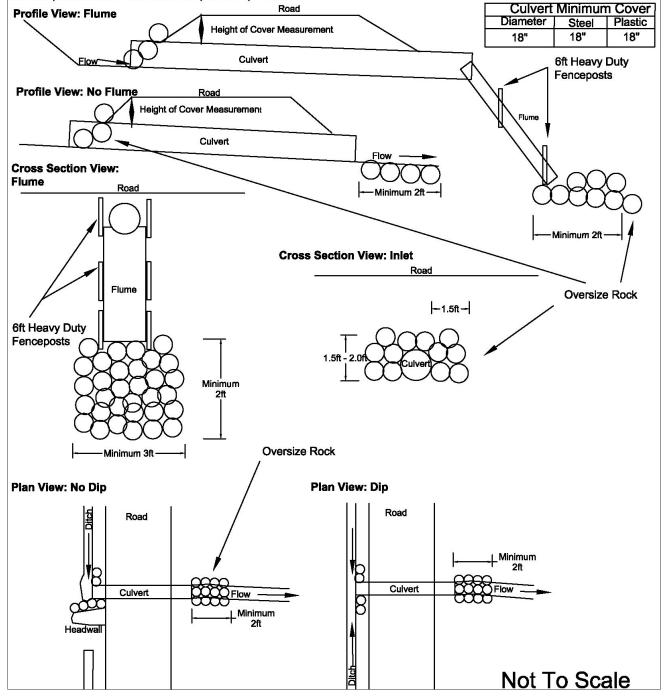
COMPACTION LIST

		VII ACTION LIC	<u> </u>				
Road	Stations	Туре	Max Depth per Lift (In)	Equipment Type	Equipment Weight (lbs)	Minimum Number of Passes	Maximum Operating Speed (mph)
Construction	All	Culvert Backfills	6	Jumping Jack	N/A	3	N/A
Construction	All	Subgrade, Embankment	6				
Construction	All	Rock Placement	6	\/ibroton/			
Pre-haul Maintenance	All	Existing Pre-haul Surface	6	Vibratory Smooth Drum	6,000	3	3
Pre-haul Maintenance, Post-haul Maintenance	All	Rock Lifts	6	Roller*			
Pre-haul Maintenance	All	All Culvert Backfills		Jumping Jack	N/A	3	N/A
Waste Areas	See Clause 4-37	Waste Material	24	Excavation Equipment	See	Clause	4-39

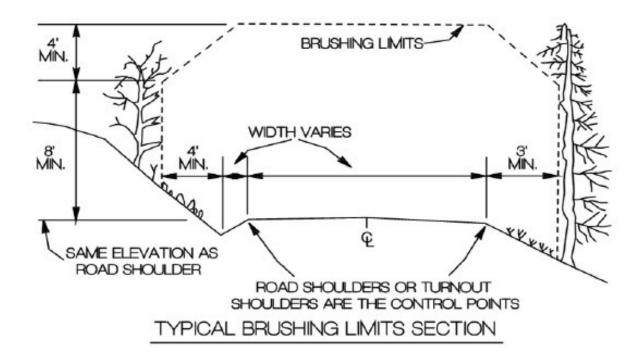
Plans to be	Sheet 1 of 1	NOTE: This a		Pit Work: (Cru	ROAD DEAC	MOBILIZATION:	COST PER STATION	TOTAL COSTS	OVERHEAD:	MISC. EXPENSES:	STRUCTURES	CULVERTS AND FLUMES:		Overs ize		Surface:	(Ballast includes 4"	Ballast	ROCK TOTAL	DITCH CLEAD	ROAD GRADING:	EXCAVATION AND FILL:	ROAD BRUSHING	CLEARING A	SIDESLOPE	NUMBER OF STATIONS	ROAD TYPE:	ROAD NAME:		SALE NAME: T3 Douglas	
Plans to be furnished by:		NOTE: This appraisal has no allowance for profit and risk		Pit Work: (Crush 10,000 CY 4" Jaw)	ROAD DEACTIVATION AND ABANDONMENT COSTS:	ON:	STATION:	STS:		ISES:	Š.	ND FLUMES:		: 310			es 4" Jaw Run)	Ballast: 8700 8,700	S (Cu. Yds.)/ROC	DITCH CLEANING/CONSTRUCTION:	ING:	N A ND FILL:	ING:	CLEARING AND GRUBBING		STATIONS:			LEGAL DESCRIPTION:	T3 Douglas	
Mehl		lowance for		aw)	ABANDON									310		750		8,700	K COSTS:	CTION:									RIPTION:		
		profit and risk.			MENT COSTS:		\$2,281	\$18,250	\$1,507	\$47	\$0	\$0	\$0	0	\$0	0	\$12,740	980		\$0	\$0	\$2,260	\$0	\$1,696	30%	∞	Construction	8+00 Spur	T25N R11W Sec. 17	CONTRACT#: 30-102254	
				\$80,000			\$7,725	\$46,349	\$3,827	\$55	\$0	\$0	\$4,918	250	\$0	0	\$28,945	1,940		\$0	\$0	\$7,695	\$0	\$910	30%	6	Construction	C-2820	c. 17	30-102254	SUMM
					\$0	\$12,900	\$36	\$1,398	\$104	\$0	\$0	\$0	\$0	0	\$1,045	100	\$0	0		\$0	\$249	\$0	\$0	\$0	0%	38	Prehaul	C-2800			ARY - Roa
Compiled by:	Cost per Sta. =	Total Sta. =	Total Costs =	Road Standard			\$827	\$128,999	\$9,555	\$7,866	\$0	\$15,829	\$1,180	60	\$1,492	100	\$56,736	3,740		\$2,067	\$1,014	\$32,000	\$1,260	\$0	0%	156	Prehaul	C-2820		REGION:	SUMMARY - Road Development Costs
Bill Mehl	\$4,921	14	\$68,899	Const.			\$53	\$1,915	\$142	\$260	\$0	\$0	\$0	0	\$1,280	100	\$0	0		\$0	\$233	\$0	\$0	\$0	0%	36	Prehaul	C-2824		Olympic	Costs
	\$0	0	\$0	Reconst.			\$1,255	\$9,726	\$720	\$820	\$0	\$0	\$0	0	\$0	0	\$7,834	540		\$302	\$50	\$0	\$0	\$0	0%	∞	Prehaul	7+75 Spur			
	\$699	258	\$180,195	Prehaul			\$1,392	\$10,373	\$768	\$769	\$0	\$801	\$0	0	\$0	0	\$7,909	540		\$78	\$48	\$0	\$0	\$0	0%	7	Prehaul	7+45 Spur		DISTRICT: Coast	
	9 \$45	8 258	\$11,543	Posthaul			\$1,534	\$1,917	\$142	\$364	\$0	\$0	\$0	0	\$0	0	\$1,403	90		\$0	\$8	\$0	\$0	\$0	0%	-	Prehaul	1+25 Spur		T: Coast	
		33					\$1,198	\$3,954	\$293	\$321	\$0	\$0	\$0	0	\$0	0	\$3,340	230		\$0	\$0	\$0	\$0	\$0	0%	ω	Prehaul	3+30 Spur			
							\$1,132	\$2,265	\$168	\$0	\$0	\$0	\$0	0	\$0	0	\$2,097	140		\$0	\$0	\$0	\$0	\$0	0%	2	Prehaul	2+00 Spur			
							\$2,669	\$15,347	\$1,137	\$560	\$0	\$0	\$0	0	\$0	0	\$5,613	400		\$0	\$37	\$8,000	\$0	\$0	0%	6	Prehaul	5+75 Spur			
	TO		SALE VOLUME MBF				\$17	\$637	\$63	\$0	\$0	\$0	\$0	0	\$574	50	\$0	0		\$0	\$0	\$0	\$0	\$0	0%	38	Posthaul	C-2800			
	TAL COST PI	TOTAL COS	AEMBF =	TOTAL			\$2	\$6,607	\$655	\$0	\$0	\$0	\$0	0	\$4,640	400	\$1,312	100		\$0	\$0	\$0	\$0	\$0	0%	162	Posthaul	C-2820			
Dat	TOTAL COST PER STATION=	TOTAL COST PER MBF =		TOTAL (All Roads) =			\$799	\$247,737	\$18,426	\$11,061	\$0	\$16,630	\$6,098	310	\$4,391	750	\$126,616	8,700		\$2,447	\$1,641	\$49,955	\$1,260	\$2,606	60%	310.10		TOTAL:			
Date: 4-26-2023	≒ \$1,121.69	= \$99.90	3,482	= \$347,837										CY		CY		CY													

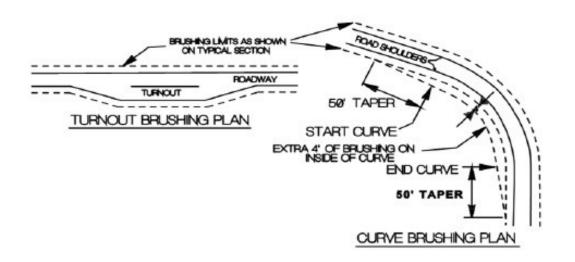
Typical Cross Drain Culvert Installation Detail Sheet

- -Culvert lay shall not exceed 10%.
- -Flumes longer than 10ft shall be staked on both sides at maximum intervals of 10ft with 6ft heavy duty steel fence posts, and fastened securely to the posts with No. 10 galvanized smooth wire or bolted to the fence posts.
- -Oversize shall be placed using a "zero height drop method", and shall be set in conjunction with the culvert installation.
- -Oversize shall be placed at headwalls, along the fill at the inlet, and at the end off flumes in accordance with this Detail. On culverts with no flume oversize shall be placed at the outlet as an energy dissipater as specified in this Detail. All oversize distance to be determined by the Contract Administrator.
- -Backfill compaction for installations on existing roads shall be achieved using a jumping jack, or plate compactor on lifts not to exceed 8in. 3 complete passes per lift is required for compaction. Backfill shall be placed and compacted evenly on both sides of the culvert. Care shall be taken to ensure adequate compaction of backfill material under the haunches of the pipe. Excavation trench width shall be at least culvert diameter plus at least the width of the compactor footprint used..



BRUSHING DETAIL

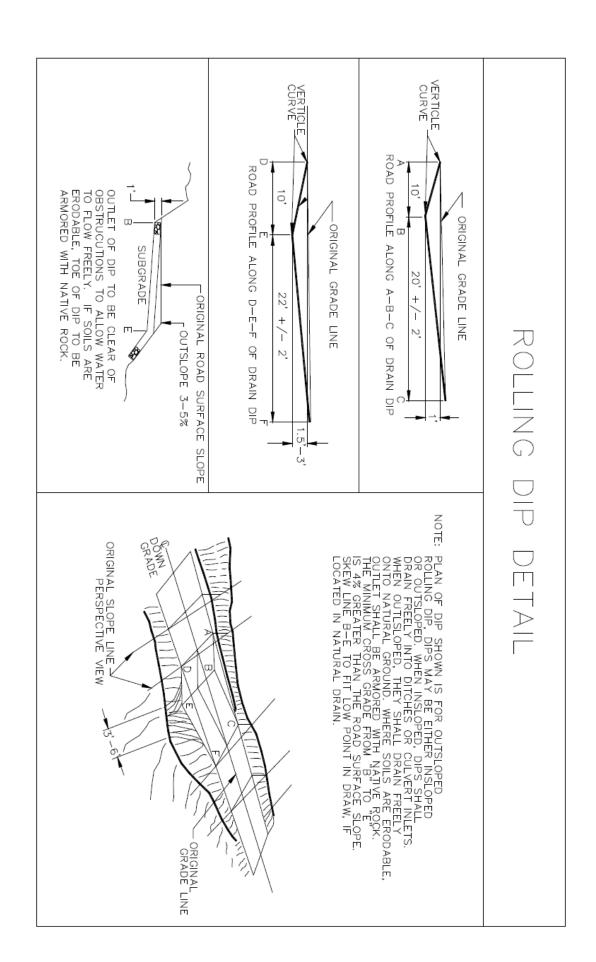




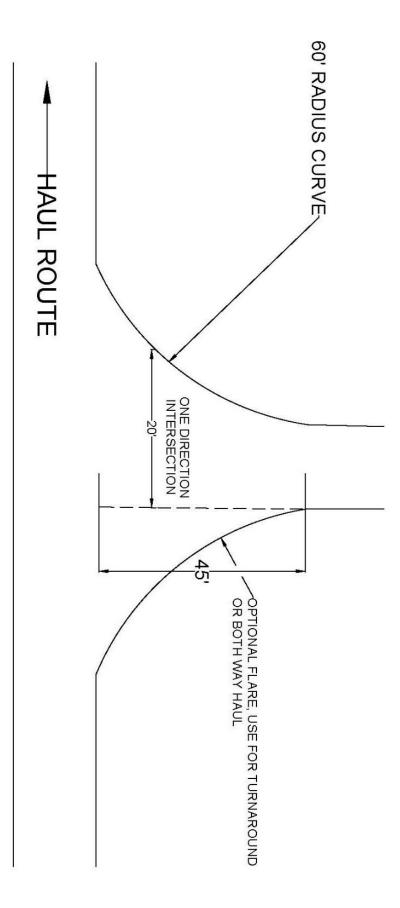
- 1) ALL VEGETATION WITHIN THE BRUSHING LIMITS SHALL BE CUT TO WITHIN 8" OF THE
- GROUND, UNLESS OTHERWISE DIFFECTED BY THE CONTRACT ADMINISTRATOR.

 2) ALL BRUSH, TREES, LIMBS, ETC. SHALL BE REMOVED FROM THE ROAD SURFACE.

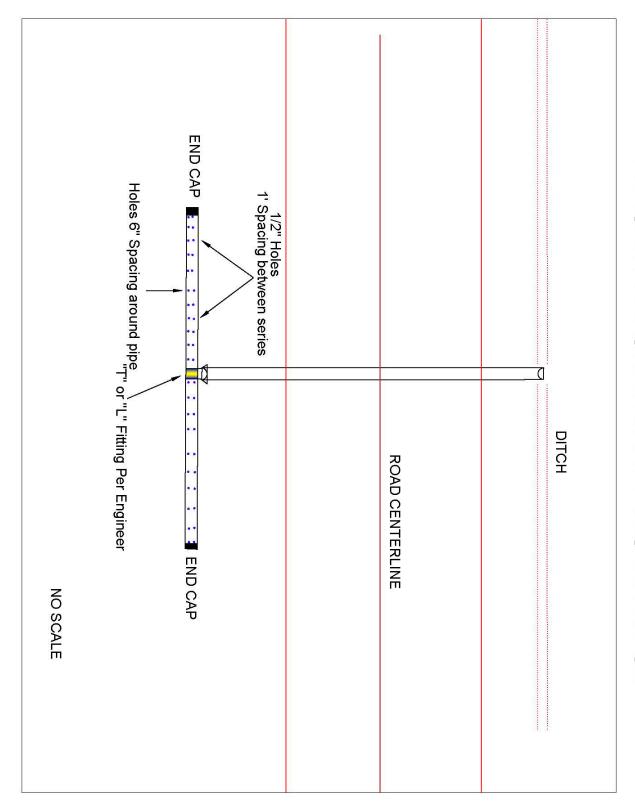
 3) ALL BRUSH, TREES, LIMBS, ETC. THAT MAY RESTRICT THE FLOW OF WATER SHALL BE REMOVED FROM THE DITCH LINE.
- 4) ALL DEBRIS THAT MAY ROLL OR MIGRATE INTO THE DITCHLINE SHALL BE REMOVED.



TYPICAL INTERSECTION



NOT TO SCALE

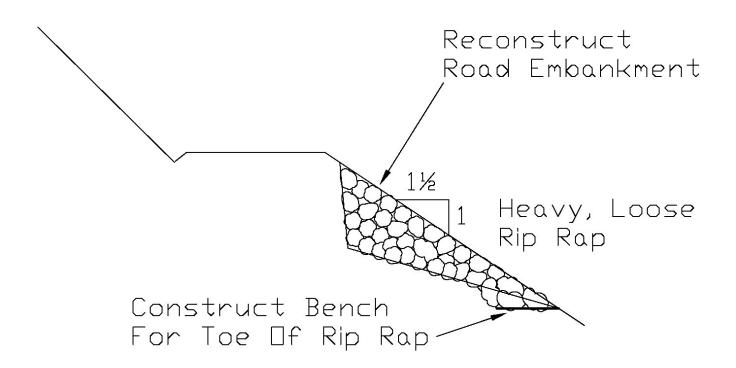


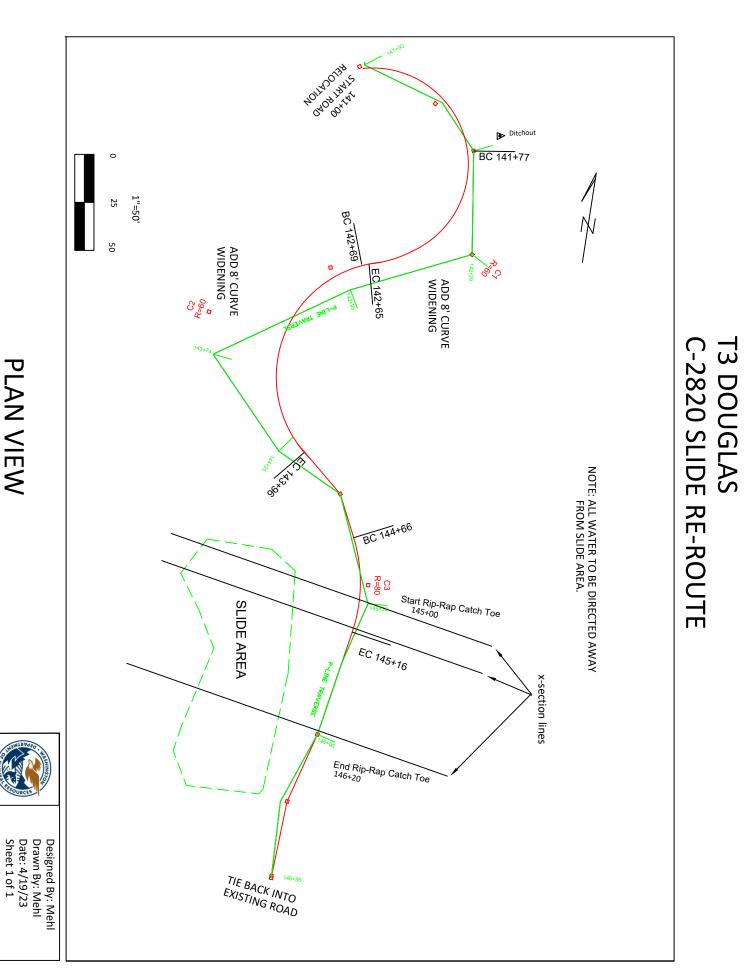
TYPICAL PERFORATED PIPE INSTALLATION

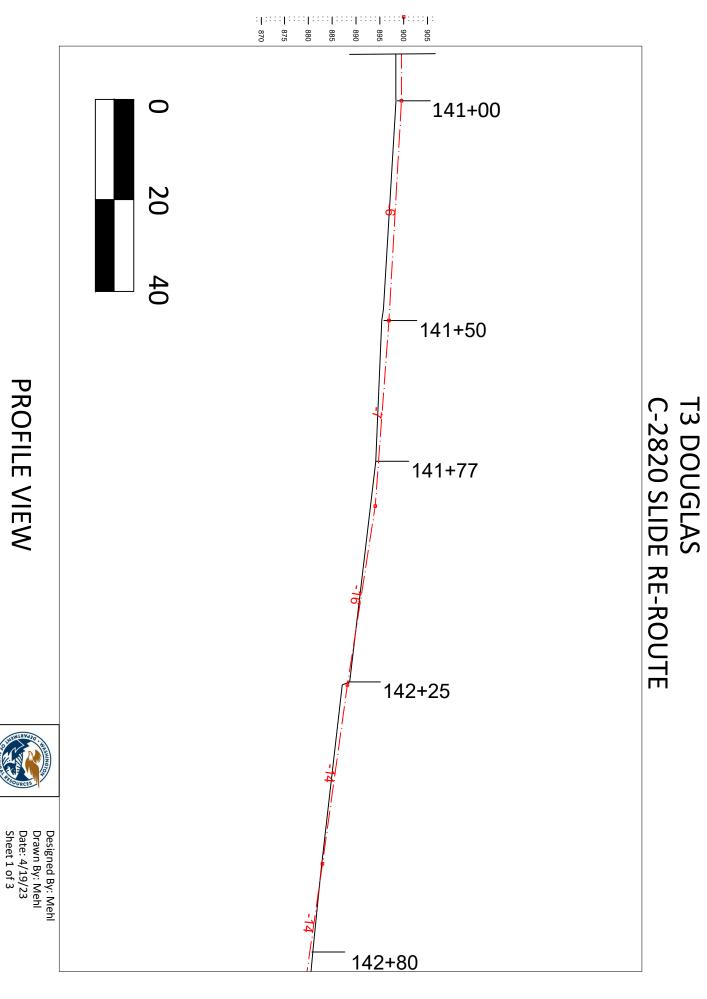
8/10/23

Typical Embankment Key Detail

Except where designed otherwise, road reconstruction with rip rap keyed toe and embankment.



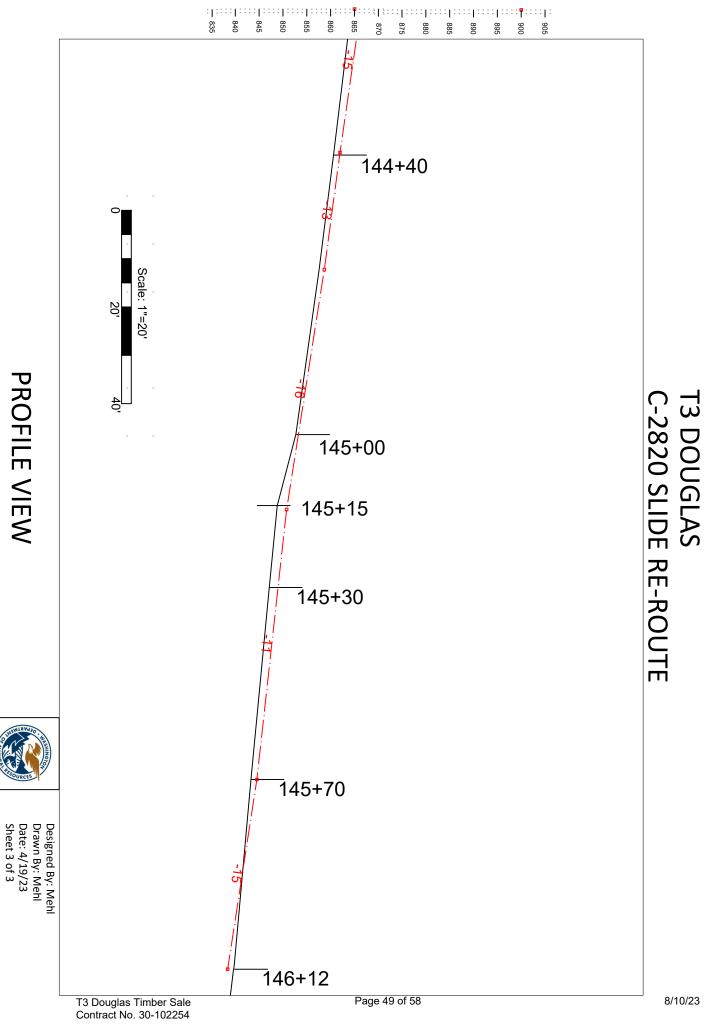


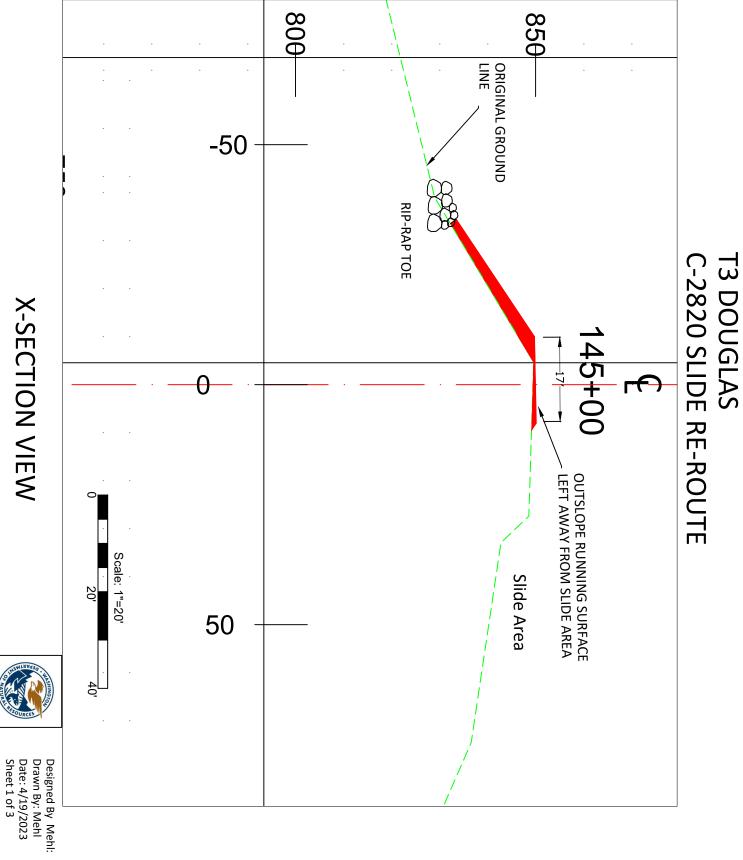


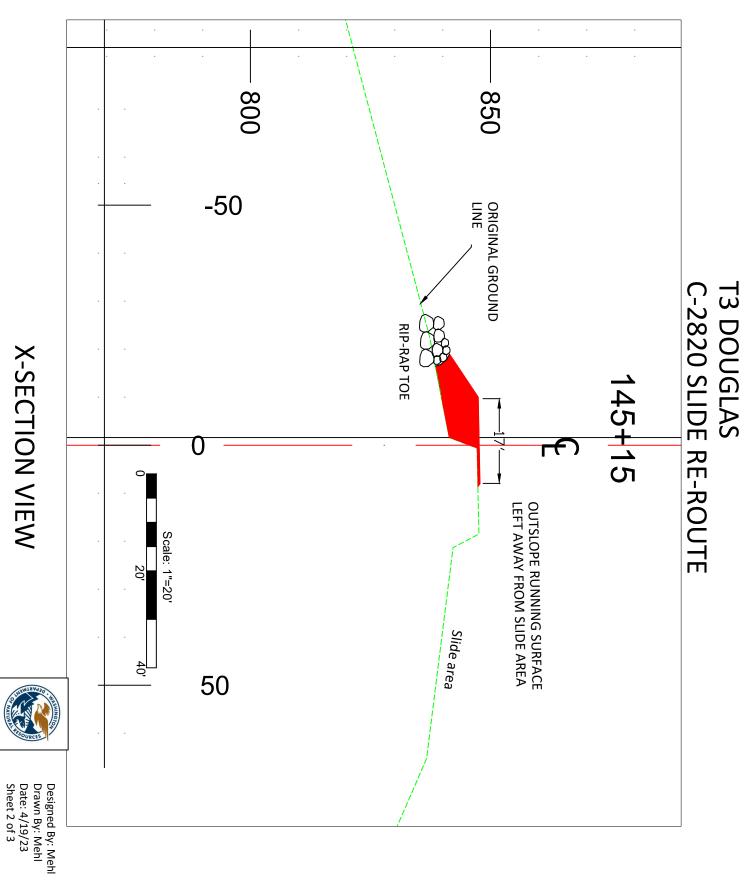
T3 Douglas Timber Sale Contract No. 30-102254

Page 47 of 58

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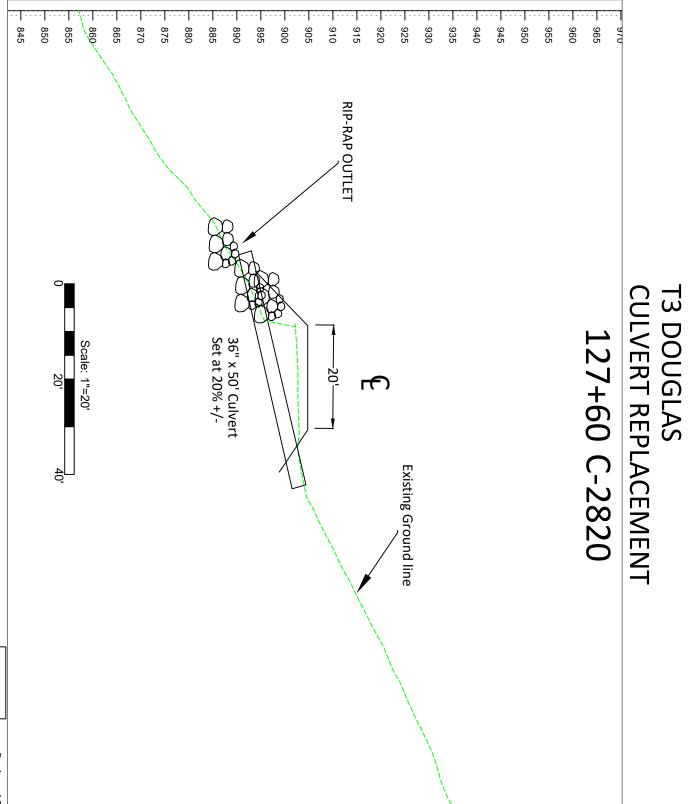




Designed By: Mehl Drawn By: Mehl Date: 4/19/23 Sheet 3 of 3

L N E ORIGINAL GROUND 850 800 -50 **RIP-RAP TOE** OUTSLOPE RUNNING SURFACE LEFT AWAY FROM SLIDE AREA Scale: 1"=20" Slide area 50

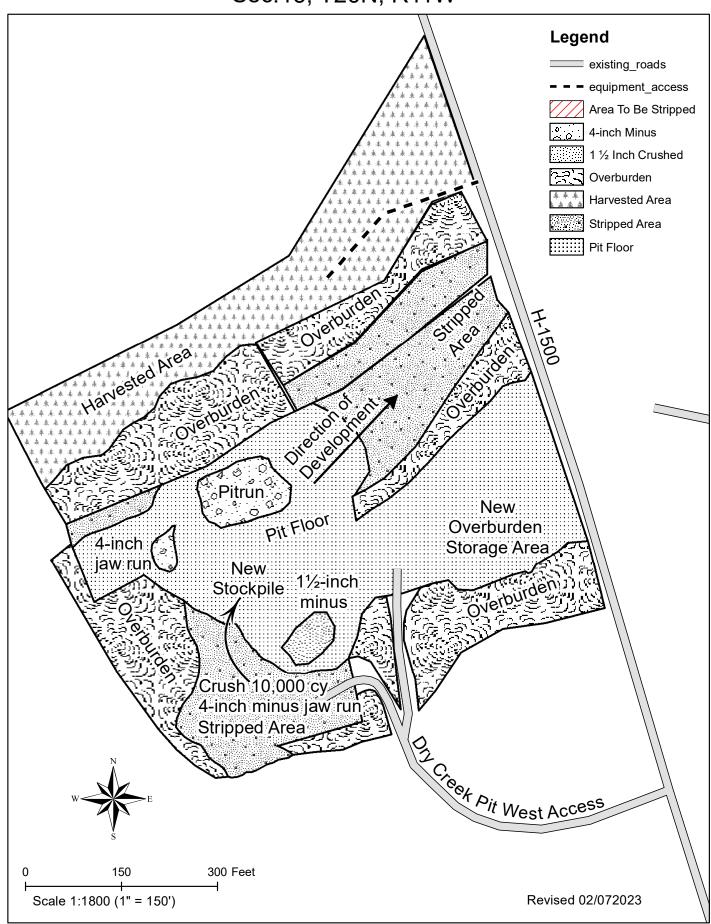
T3 DOUGLAS
C-2820 SLIDE RE-ROUTE

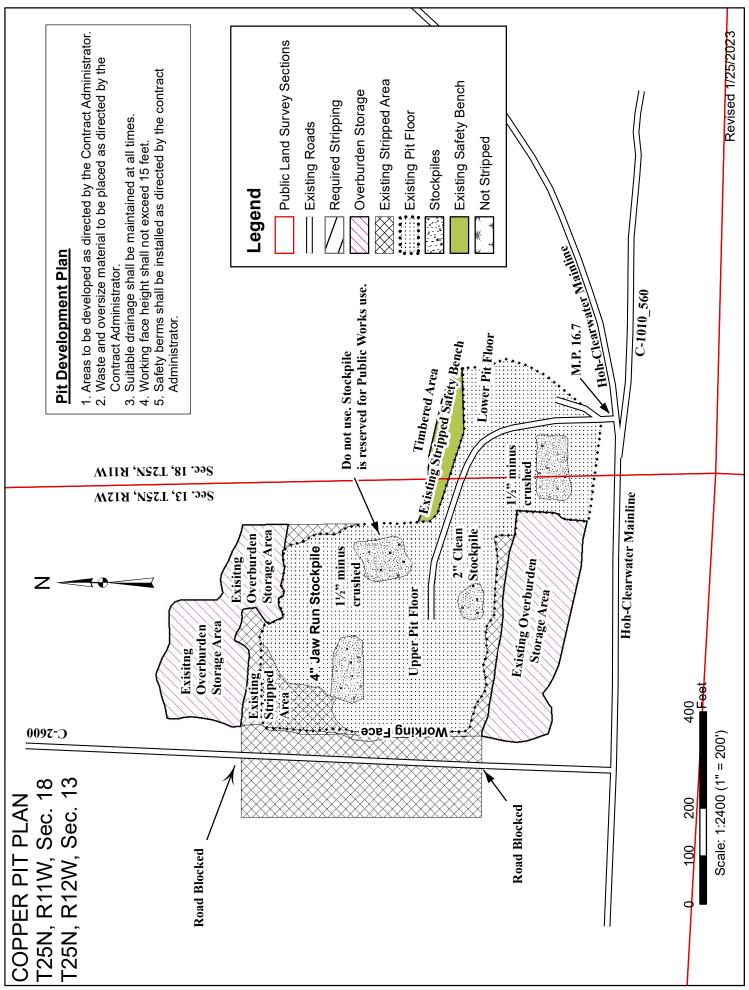


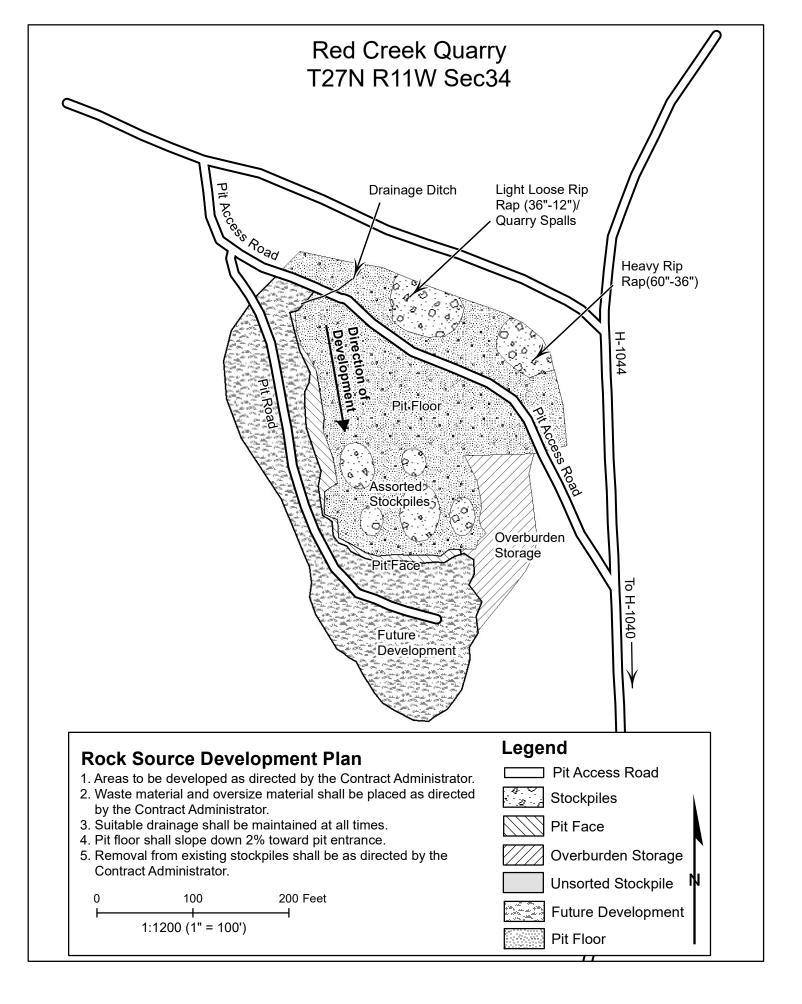


Designed By: Mehl Drawn By: Mehl Date: 4/27/23 Sheet 1 of 1

Dry Creek Pit Plan Sec.15, T26N, R11W







FOREST ACCESS ROAD MAINTENANCE SPECIFICATIONS

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, and with 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, shape, and compact 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 culvert headwalls to a level slightly below the road shoulder with material that will resist erosion. This is to allow for culverts that are overtopped to keep the water in the ditchline.
- 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.

Preventative Maintenance

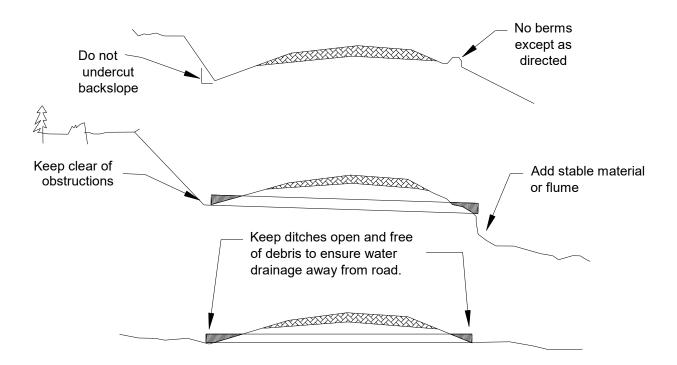
Perform preventative maintenance work to safeguard against storm damage, such as blading to ensure correct runoff, ditch and culvert cleaning, and waterbar maintenance.

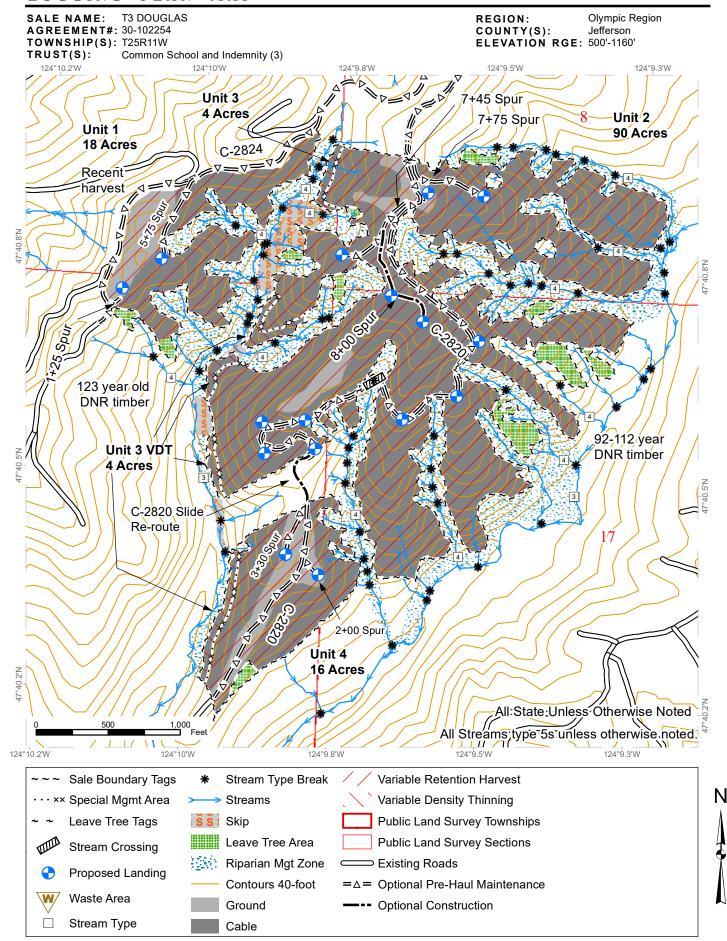
Termination of Use or End of Season

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.





IN THE SUPERIOR COURT OF THE STATE OF WASHINGTON FOR JEFFERSON COUNTY

STATE OF WASHINGTON,) ⁷²
Petitioner,	No. 7251
vs.) JUDGMENT AND DECREE) OF APPROPRIATION
BERT L. COLE and NORMA COLE, husband and wife,)
Defendants.	;

This cause of action coming on duly and regularly for trial on the day of trial of 19 CG, before the above entitled court, sitting without a jury, trial by jury not having been demanded, to ascertain, determine, and award the compensation to be made in money to the owners, tenants, encumbrancers, and other persons interested therein, for the taking or injuriously affecting of lands, real estate, premises, and other property as damages for the establishment of a land management road; the petitioner appearing by J. R. Pritchard, Assistant Attorney General, and the defendants, who failed to appear either personally or by their attorneys; and

The court being satisfied by proof that all parties interested in the lands, real estate, and premises and other property described in the petition of the petitioner on file herein and hereinafter specifically set forth, have been duly served with notice in this action as required by law; and

having been further satisfied by competent proof that the contemplated use for which said lands, real estate, premises, and other property are sought to be appropriated is really a public use, namely a land management road, and accordingly having heretofore made and entered in this action its order adjudicating public use; and

dence offered on behalf of petitioners (defendants having presented no evidence) concerning the lands, real estate, premises, and other property sought to be appropriated and used by the said petitioner for the above mentioned purposes, and the court having found and assessed the damages including the value of the land appropriated, resulting to all persons and parties interested therein by reason of such appropriation of lands, real real estate, and premises, in the sum of

as the total amount to be paid by the petitioner in this action to the defendants, Bert L. Cole and Norma Cole, husband and wife;

Now Therefore, in accordance with the foregoing findings, the court being fully advised,

is the total amount of compensation, including costs to be paid into the registry of the court herein by petitioner, for the defendants Bert L. Cole and Norma Cole, husband and wife, and all other persons interested therein for the appropriation

and use by the said petitioner as a land management road of the following lands, real estate, premises, and other property being acquired herein from said defendants in Jefferson County, Washington, to-wit:

That portion of the North Half of the Northeast Quarter (N¹2 NE¹4), Section 1, Township 26 North, Range 12 West, W.M., included within the limits of a strip of land 100 feet width, having 50 feet of such width on each side of the following described centerline:

Beginning at a point on the north line of said Section 1 which is north 88° 44' west 1855.7 feet from the northeast corner thereof, said point of beginning being a point on a 1° curve to the left, the tangent to said point on said curve bears south 61° 53' east and running thence on an arc of said 1° curve to the left 1963.6 feet to a point on the east line of said Section 1 which is south 573.7 feet from the northeast corner thereof, the tangent to said 1° curve at said point bears south 81° 31' east, having an area of 4.5 acres, more or less.

upon the payment into the registry of the above entitled court of the sum of _______ with costs herein taxed at _______, the petitioner, State of Washington, shall be and become vested with a nonexclusive easement in perpetiuty over and across the 4½ acres of land described herein, said easement being under the terms and conditions of Exhibit 1 to this Judgment and Decree of Appropriation, which said exhibit is by this reference made a part hereof, and shall be entitled to enter into possession of and at all times thereafter use and possess the land included within the easement herein, and that such payment shall be in full for the taking, condemnation,

and appropriation and use of the same.

It is further Ordered, Adjudged, and Decreed that upon payment of the said award and judgment into the registry of the court in this cause, the clerk thereof, be, and hereby is, ordered and directed to satisfy said judgment and to hold such sum of money for distribution subject to further order of this court.

Done in Open Court this 3 day of October 1966.

SlosEph H. Johnston

EXHIBIT 1

The following are the terms and conditions of the nonexclusive easement in perpetuity over and across the lands described in Exhibit A, above, for which petitioner prays in the petition to which this Exhibit B is attached:

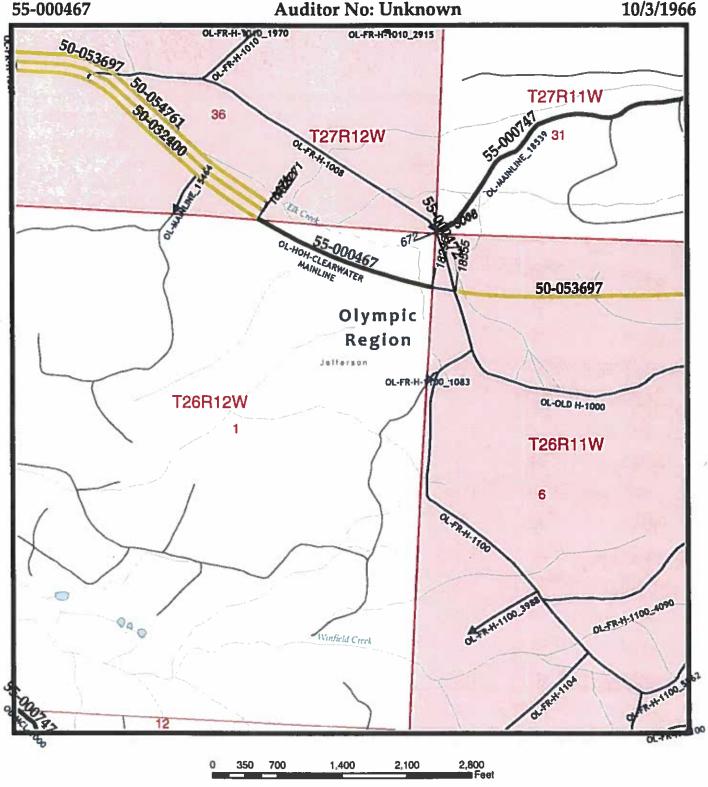
Petitioner to have all rights, privileges, and authority for the full use and enjoyment of land management road FR-H-1000 as it passes over and across the lands described in Exhibit A, above, for any and all purposes deemed necessary or desirable by petitioner in connection with the control, management, and administration of lands owned by, or under the control of, petitioner, with the right in petitioner to extend any or all of such rights, privileges, and authority to such other person, agency, or corporation as petitioner, in its absolute discretion, desires.

The defendants to have reserved to themselves, their successors and assigns, the right to cross and recross the said land management road FR-H-1000, on grade or otherwise, without charge, for any and all purposes deemed necessary or desirable by defendants in connection with the management and administration of their lands or the resources thereof; providing only, that such crossing or recrossing will not interfere unduly with the use of said road by petitioner.

Defendants to have reserved to themselves, their

successors and assigns, the right to use, maintain, patrol, reconstruct and repair the said land management road FR-H-1000 for any and all purposes; providing only, they shall perform, or cause to be performed, their proportionate share of the maintenance and resurfacing of the said land management road FR-H-1000, or any portion thereof used by them, as it passes over and across the lands aforesaid, made necessary by heavy hauling thereon, their said share to be computed on the ratio of their heavy hauling to all heavy hauling thereon, to the end that said road shall be in at least as good condition at the time their heavy hauling ends as it was at the time their heavy hauling commenced.

Defendants to have, in addition to such monetary damages as the court shall adjudge herein, a nonexclusive easement for the use of said FR-H-1000 land management road as it passes over and across lands owned by petitioner in Sections 34, 35, and 36, Township 27 North, Range 12 West, W.M., subject to defendants paying their proportionate share of the costs of said road.



1: Primary Highway/All-Weather/Hard Surface

3: Light-Duty Road/All-Weather/Improved

- 4: Unimproved Road/Fair or Dry Weather

-- 5: 4 wheel drive

2: Secondary Highway/All-Weather/Hard Surface

Right of Way Easements Road by USGS Class

Grant Code

1: Acquired by DNR

2: Granted by DNR

3: Merged in Title

DNR Routes

Route Direction

DNR Managed Lands

Granted Trust Lands

Forest Board Trust Lands

NAP / NRCA

Other DNR-Managed Lands;

IN THE SUPERIOR COURT OF THE STATE OF WASHINGTON

FOR JEFFERSON COUNTY

STATE OF WASHINGTON.

Petitioner,) No. 7251

15 VS.

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> ORDER CORRECTING JUDGMENT AND DECREE OF APPROPRIATION

BERT L. COLE, et al.

Defendants.)

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This matter coming on regularly for hearing in open court upon the motion of the petitioner for an Order correcting the JUDGMENT AND DECREE OF APPROPRIATION entered in this cause on the 3rd day of October, 1966, petitioner appearing by its attorneys, John J. O'Connell, Attorney General and J. R. Pritchard, Assistant Attorney General, and the defendants not appearing but consenting, pro se, to the entry of this Order, it appearing to the Court that, by reason of mistake and inadvertence, the last paragraph of Exhibit 1 to the said JUDGMENT AND DECREE OF APPROPRIATION contains error which, in the interests of justice, needs be corrected, and the Court being fully advised,

NOW, THEREFORE, IT IS ORDERED, ADJUDGED, AND DECREED That the

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ORDER FOR CORRECTION

OF JUDGHEN'C

JOHN J. O'CONNELL, Attorney General J. R. PRITCHARD, Assistant Temple of Justice, Olympia, Wash. 98501 Telephone 753-5318, Area Code 206

3 4 last sentence of Exhibit 1 to the JUDGMENT AND DECREE OF APPROPRIATION 5 entered herein on the 3rd day of October, 1966, be, and hereby is 6 corrected to read: 7 Defendants to have, in addition to such monetary damages 8 as the court shall adjudge herein, a nonexclusive easement for the use of said FR-H-1000 land management road as it 9 passes over and across lands owned by petitioner in Sections 34, 35, and 36, Township 27 North, Range 12 West, 10 W.M., subject to defendants' paying their proportionate share of the costs of maintaining said road, said share 11 to be measured by the ratio of defendants' heavy hauling thereon to all heavy hauling thereon. 12 DONE IN OPEN COURT this 25th day of September -// 13 14 1967. 15 16 17 18 Presented by: 19 JOHN J. O'CONNELL Attornev 20 21 22 PRITCHARD Assistant Attorney General 23 24 Approved as to form and content, 25 notice of presentment waived: 26 27 BERT L'. COLE Defendant, pro se 28 29 30 31 32

ORDER FOR CORRECTION OF JUDGMENT - 2

33

8	THE STATE OF WASHINGTON Sepular Tide CRESON COUNTY Cole Easing
IN THE SUPERIOR COURT OF	THE STATE OF WASHINGTON
for Jefff	Cole County
STATE OF WASHINGTON,	
Petitioner,)	No. 7251
vs.	SATISFACTION OF JUDGMERT
BERT L. COLE, et al.,	A course
Respondents.)	T

This certifies that the Judgment and Decree of Appropriation entered herein in open court on the 3rd day of October, 1966, awarding \$168.00 to respondents as full compensation for their interest in real estate condemned by petitioner has been fully paid and satisfied.

Executed this / 9 th day of October, 1966.

BERT L. COLE
Bort L. Cole, Respondent