

Washington DNR Timber Sales Program

Updated information is being provided for **Powerline Alder** timber sale documents as follows:

Documents amended:

| Brief Description | DATE | Initials |
|---|-------------------|-----------------|
| Remove “This sale has hazard abatement requirement, see map details” | 06/04/2020 | kp |
| | | |
| | | |



TIMBER NOTICE OF SALE

SALE NAME: POWERLINE ALDER

AGREEMENT NO: 30-100692

AUCTION: July 29, 2020 starting at 10:00 a.m.,
Olympic Region Office, Forks, WA

COUNTY: Clallam

SALE LOCATION: Sale located approximately 17 miles west of Port Angeles

**PRODUCTS SOLD
AND SALE AREA:**

All timber except trees banded with blue paint or bounded out by yellow leave tree area tags, bounded by the following: Timber sale boundary tags, timber type change and the PA-J-1000 in Unit 1; on part(s) of Sections 5 all in Township 30 North, Range 8 West, Sections 31 and 32 all in Township 31 North, Range 8 West, W.M., containing 14 acres, more or less.

CERTIFICATION: This sale is certified under the Sustainable Forestry Initiative® program Standard (cert no: PwC-SFIFM-513)

ESTIMATED SALE VOLUMES AND QUALITY:

| Species | Avg Ring DBH Count | Total MBF | MBF by Grade | | | | | | | | | |
|-------------|-----------------------|--------------|--------------|----|----|----|----|----|----|----|-----|---|
| | | | 1P | 2P | 3P | SM | 1S | 2S | 3S | 4S | UT | |
| Red alder | 11.6 | 225 | | | | | | | 5 | 4 | 207 | 9 |
| Maple | 13.7 | 9 | | | | | | | 2 | 1 | 5 | 1 |
| Red cedar | 10.8 | 6 | | | | | | | | 3 | 3 | |
| Douglas fir | 12.8 | 4 | | | | | | | | 2 | 1 | 1 |
| Hemlock | 10.5 | 2 | | | | | | | | | 1 | 1 |
| Sale Total | | 246 | | | | | | | | | | |

MINIMUM BID: \$35,000.00

BID METHOD: Sealed Bids

PERFORMANCE

SECURITY: \$7,000.00

SALE TYPE: Lump Sum

EXPIRATION DATE: November 30, 2020

ALLOCATION: Export Restricted

BID DEPOSIT: \$3,500.00 or Bid Bond. Said deposit shall constitute an opening bid at the appraised price.

HARVEST METHOD: 100% ground Rubber tired and tracked skidder may operate within the BPA powerline right-of-way only. Authority to use other equipment or to operate outside the equipment specifications detailed above must be approved in writing by the State. Falling and Yarding will not be permitted from 8:00 p.m. to 6:00 a.m. or on weekends and State recognized holidays unless authorized in writing by the Contract Administrator.

ROADS: 1.25 stations of required construction. 72.85 stations of required prehaul maintenance. All road activity, including rock haul, timber haul and rock pit development will not be permitted on weekends and State recognized holidays unless authorized in writing by the Contract Administrator.

ACREAGE DETERMINATION

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



TIMBER NOTICE OF SALE

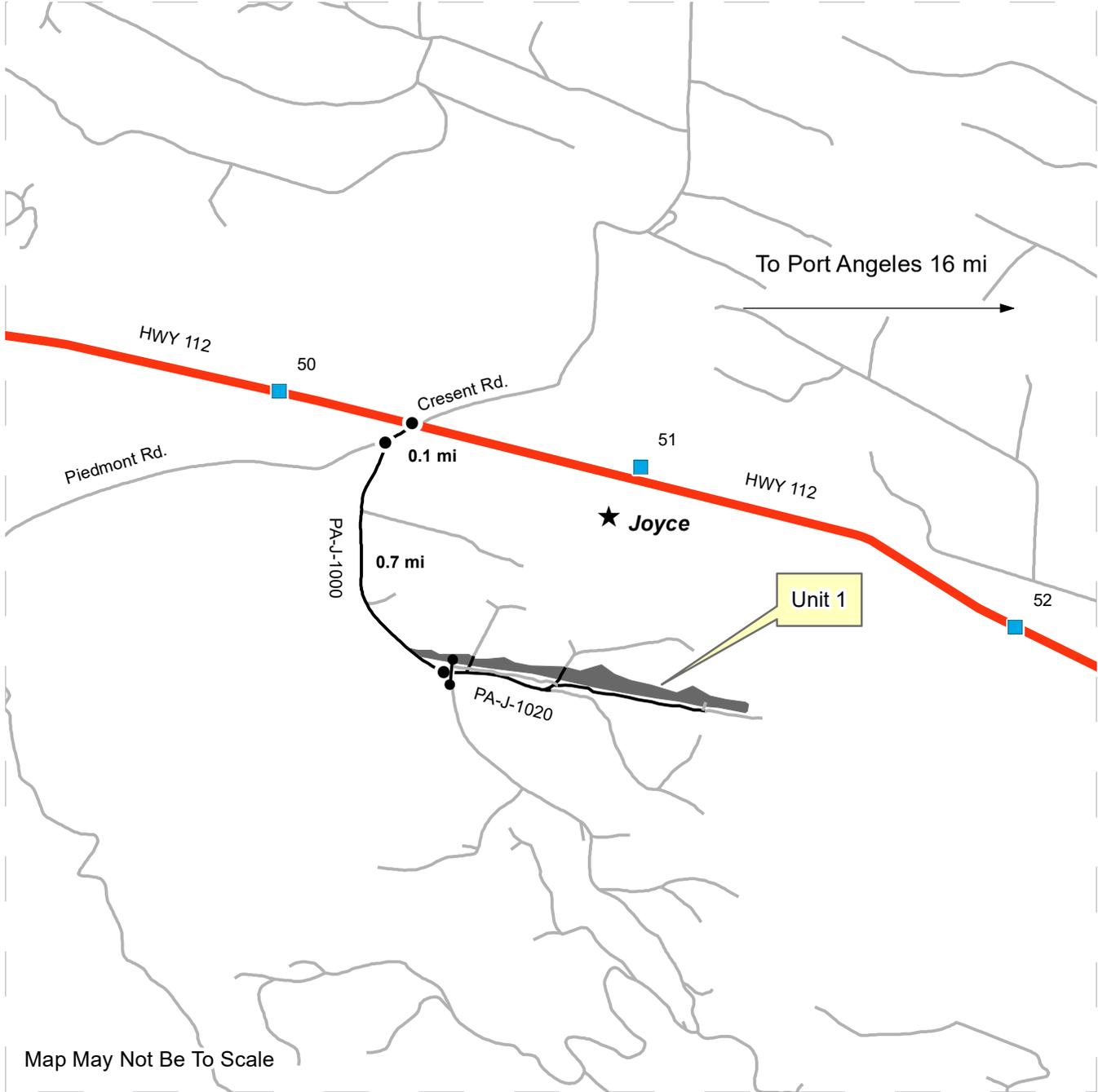
FEES: \$4,182.00 is due on day of sale. \$9.00 per MBF is due upon removal. These are in addition to the bid price.

SPECIAL REMARKS: Unlocked gate on the PA-J-1020.

DRIVING MAP

SALE NAME: POWERLINE ALDER
AGREEMENT#: 30-100692
TOWNSHIP(S): T30R08W, T31R08W
TRUST(S): State Forest Transfer(1)

REGION: Olympic Region
COUNTY(S): CLALLAM
ELEVATION RGE: 520'-560'



| | |
|---|--------------------|
|  | Timber Sale Unit |
|  | Highway |
|  | Other Road |
|  | Haul Route |
|  | Milepost Markers |
|  | Distance Indicator |
|  | gate |

DRIVING DIRECTIONS:

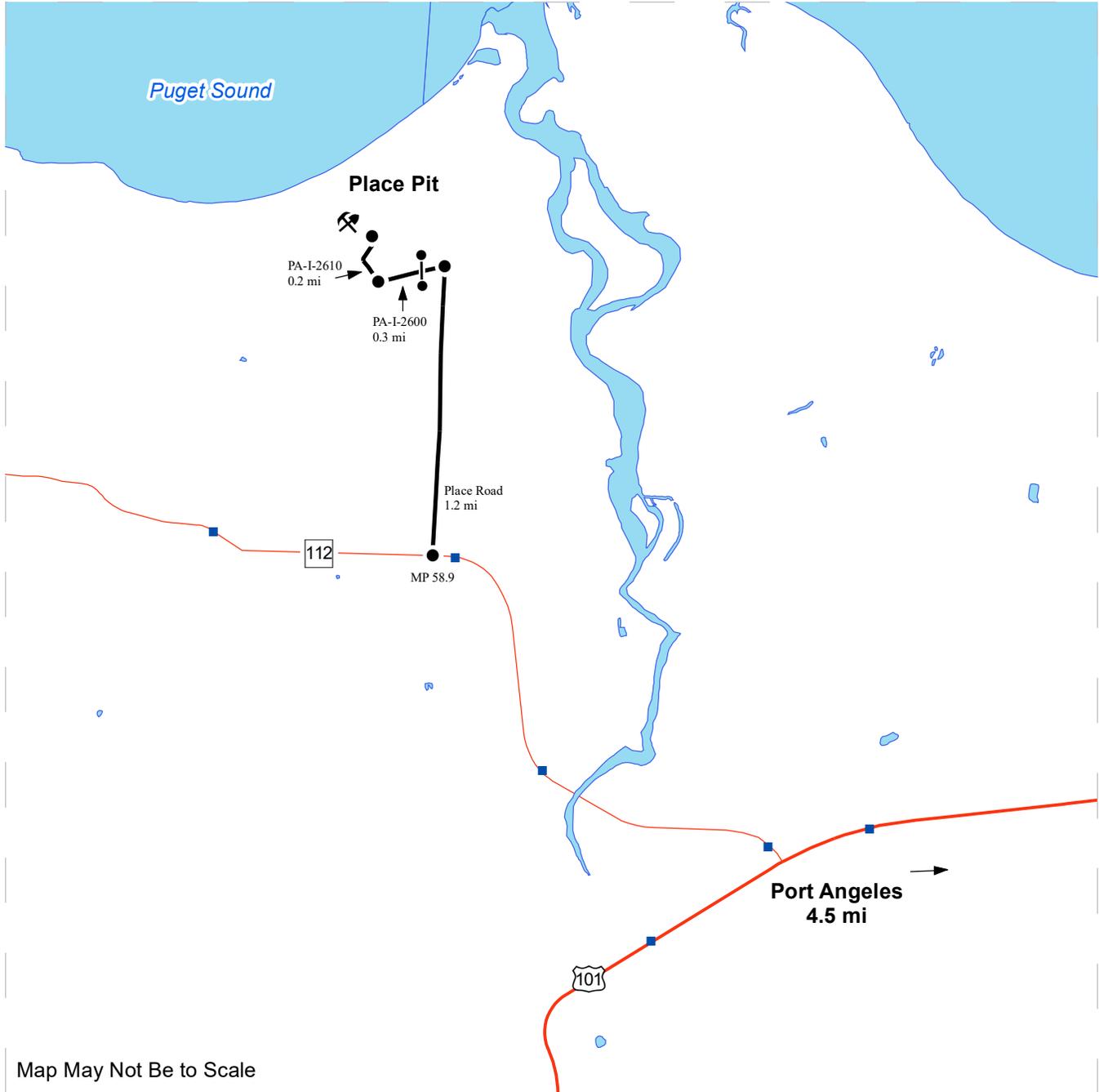
Unit 1
 From milepost 51 on Hwy 112 travel 0.5 miles west and turn left onto Piedmont Rd.
 Follow Piedmont Rd southwest for 0.1 miles to the PA-J-1000 road on the left.
 Turn left onto the PA-J-1000 and travel south for 0.7 miles. Turn left onto the PA-J-1020 road
 and drive through the gate. Unit 1 is on your left.



DRIVING MAP

SALE NAME: Powerline Alder
AGREEMENT#: 30-100692
TOWNSHIP(S): T31N R07W
TRUST(S): State Forest Transfer (01)

REGION: Olympic
COUNTY(S): Clallam
ELEVATION RGE: 200'



Map May Not Be to Scale

-  Rock Pit
-  Distance Indicator
-  Gate
-  Milepost Markers
-  Highway
-  Haul Route

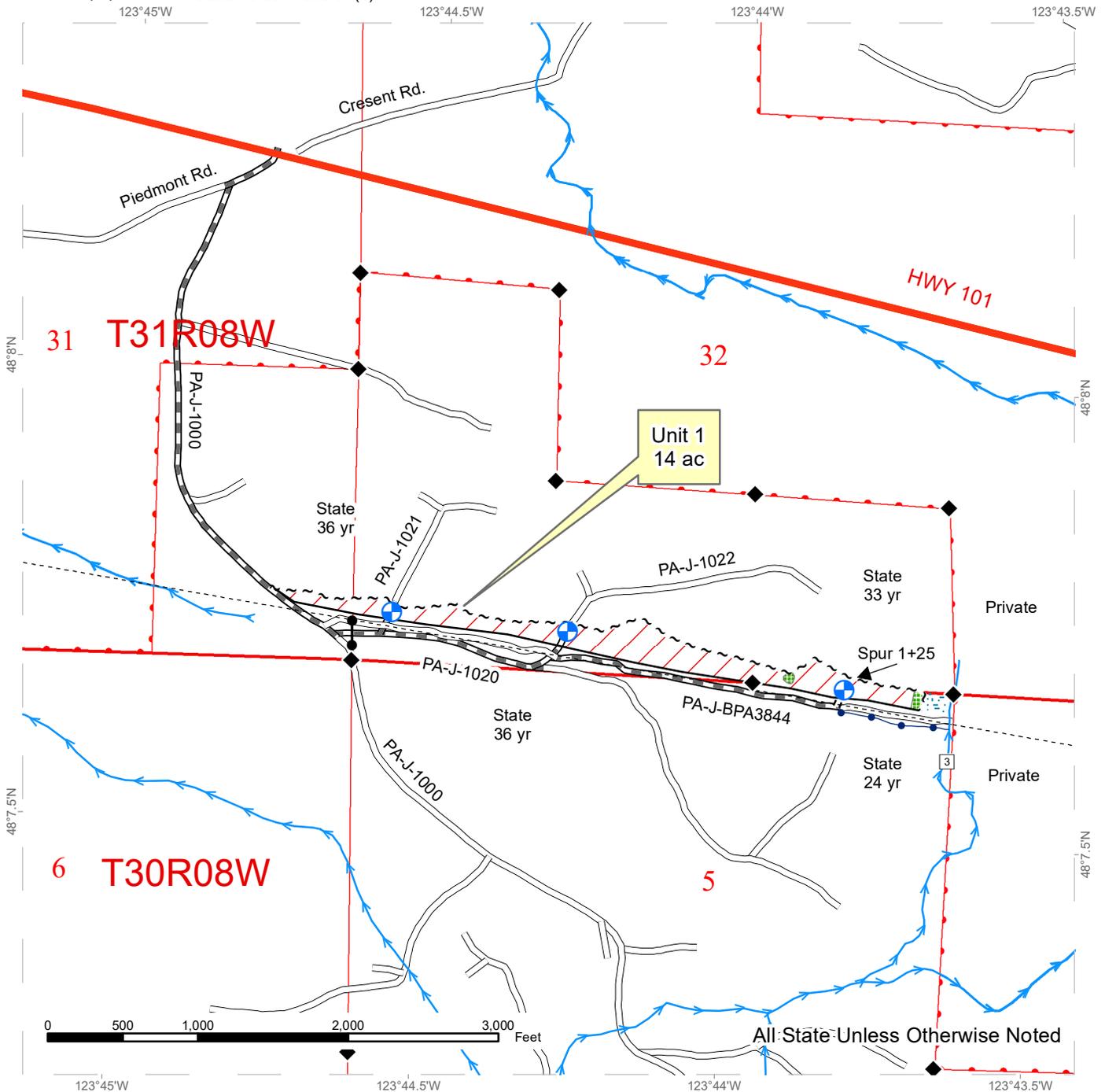
DRIVING DIRECTIONS:
 Place Pit: Drive 4.5 miles west of Port Angeles to State Route 112. Turn northwest (right) and drive to MP 58.9. Turn north (right) onto Place Road and drive to 1.2 miles. Turn west (left) onto the PA-I-2600/2610. AA-1 required for gate. Drive 0.5 miles to the pit.



TIMBER SALE MAP

SALE NAME: POWERLINE ALDER
AGREEMENT #: 30-100692
TOWNSHIP(S): T30R8W, T31R8W
TRUST(S): State Forest Transfer (1)

REGION: Olympic Region
COUNTY(S): Clallam
ELEVATION RGE: 520'-560'

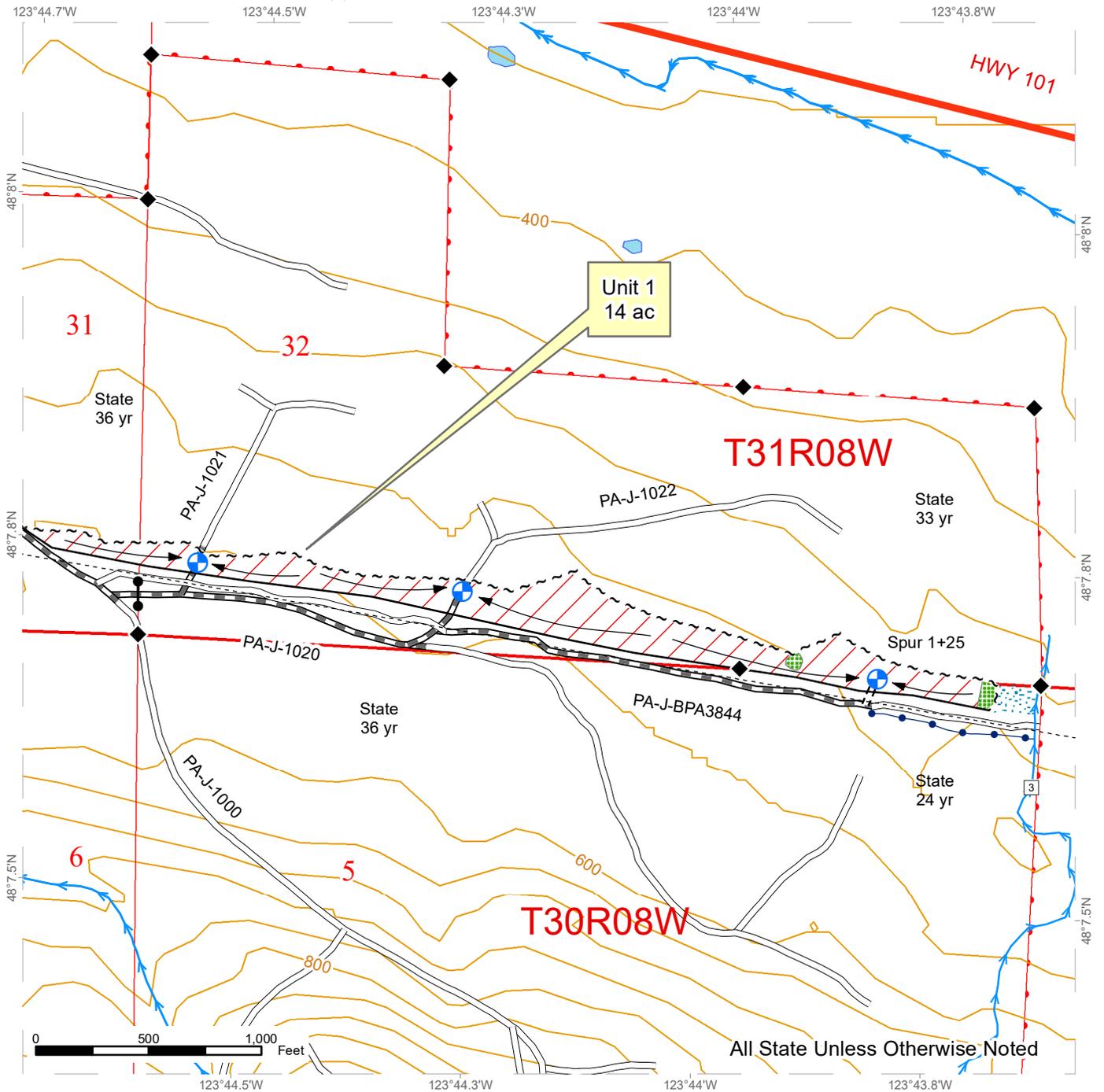


| | | | | | |
|--|--------------------|--|------------------------|--|-----------------|
| | Sale Area | | Sale Boundary Tags | | Stream |
| | Leave Tree Area | | Timber Type Change | | Man-made Ditch |
| | Riparian Mgmt Zone | | Highway | | Stream Type |
| | Waterbodies | | Existing Roads | | Landing |
| | DNR Managed Lands | | Prehaul Maintenance | | Gate |
| | | | Required Construction | | Survey Monument |
| | | | BPA Transmission Lines | | |

LOGGING PLAN MAP

SALE NAME: POWERLINE ALDER
AGREEMENT#: 30-100692
TOWNSHIP(S): T30R8W, T31R8W
TRUST(S): State Forest Transfer (1)

REGION: Olympic Region
COUNTY(S): Clallam
ELEVATION RGE: 520'-560'



| | | | | | |
|--|--------------------|--|-----------------------|--|------------------------|
| | Ground Based VRH | | Sale Boundary Tags | | BPA Transmission Lines |
| | Leave Tree Area | | Timber Type Change | | Stream |
| | Riparian Mgmt Zone | | Ground Yarding | | Man-made Ditch |
| | Waterbodies | | Highway | | Stream Type |
| | DNR Managed Lands | | Existing Roads | | Landing |
| | | | Prehaul Maintenance | | Gate |
| | | | Required Construction | | Survey Monument |

**STATE OF WASHINGTON
DEPARTMENT OF NATURAL RESOURCES**

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

Export Restricted Lump Sum AGREEMENT NO. 30-0100692

SALE NAME: POWERLINE ALDER

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

Section G: General Terms

G-001 Definitions

The following definitions apply throughout this contract;

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

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

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

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

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

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

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

G-011 Right to Remove Forest Products and Contract Area

Purchaser was the successful bidder on July 29, 2020 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 banded with blue paint or bounded out by yellow leave tree area tags, bounded by the following: Timber sale boundary tags, timber type change and the PA-J-1000 in Unit 1;, located on approximately 14 acres on part(s) of Section 5 in Township 30 North, Range 8 West, Sections 31, and 32 all in Township 31 North, Range 8 West W.M. in Clallam 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 eligible for removal under the terms of this contract.

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

G-020 Inspection By Purchaser

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

G-025 Schedules

The following attached schedules are hereby incorporated by reference:

| Schedule | Title |
|----------|-----------------------------|
| A | SLASH PILING SPECIFICATIONS |
| B | Green Tree Retention Plan |

G-031 Contract Term

Purchaser shall complete all work required by this contract prior to November 30, 2020.

G-040 Contract Term Adjustment - No Payment

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

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

G-051 Contract Term Extension - Payment

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

- a. A written request for extension of the contract term must be received prior to the expiration date of the contract.
- b. Completion of all required roads and compliance with all contract and regulatory requirements.
- c. For the first extension, not to exceed 1 year, payment of at least 25 percent of the total contract price.

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

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

- d. Payment of an amount based on 12 percent interest per annum on the unpaid portion of the total contract price.

All payments, except the initial deposit, will be deducted from the total contract price to determine the unpaid portion of the contract.

- e. Payment of \$999.00 per acre per annum for the acres on which an operating release has not been issued.
- f. In no event will the extension charge be less than \$200.00.
- g. Extension payments are non-refundable.

G-053 Surveys - Sensitive, Threatened, Endangered Species

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

G-060 Exclusion of Warranties

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

- a. The MERCHANTABILITY of the forest products. The use of the term "merchantable" in any document is not intended to vary the foregoing.
- b. The CONDITION of the forest products. The forest products will be conveyed "AS IS."
- c. The ACREAGE contained within any sale area. Any acreage descriptions appearing in the timber notice of sale, timber sale contract, or other documents are estimates only, provided solely for administrative and identification purposes.
- d. The VOLUME, QUALITY, OR GRADE of the forest products. The State neither warrants nor limits the amount of timber to be harvested. The descriptions of the forest products to be conveyed are estimates only, made solely for administrative and identification purposes.
- e. The CORRECTNESS OF ANY SOIL OR SURFACE CONDITIONS, PRE-SALE CONSTRUCTION APPRAISALS, INVESTIGATIONS, AND ALL OTHER PRE-BID DOCUMENTS PREPARED BY OR FOR THE STATE. These documents have been prepared for the State's appraisal purposes only.

- f. THAT THE SALE AREA IS FREE FROM THREATENED OR ENDANGERED SPECIES or their habitat. The State is not responsible for any interference with forestry operations that result from the presence of any threatened or endangered species, or the presence of their habitat, within the sale area.
- g. THAT THE FORESTRY OPERATIONS to be performed under this contract WILL BE FREE FROM REGULATORY ACTIONS by governmental agencies. The State is not responsible for actions to enforce regulatory laws, such as the Washington Forest Practices Act (chapter 76.09 RCW), taken by the Department of Natural Resources or any other agency that may affect the operability of this timber sale.
- h. Items contained in any other documents prepared for or by the State.

G-062 Habitat Conservation Plan

The State has entered into a Habitat Conservation Plan (HCP) with the U.S. Fish and Wildlife Service and the National Marine Fisheries Service (the Services) to address state trust land management issues relating to compliance with the Federal Endangered Species Act. The activities to be carried out under this contract are located within the State's HCP area and are subject to the terms and conditions of the HCP, and the Services' Incidental Take Permit Nos. TE812521-1 and 1168 (collectively referred to as ITP), or as amended hereafter by the Services. The ITP authorizes the incidental take of certain federally listed threatened and endangered species, as specified in the ITP conditions. All HCP materials, including the ITP, are available for review at the State's Regional Offices and the administrative headquarters in Olympia, Washington.

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

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

G-063 Incidental Take Permit Notification Requirements

- a. Purchaser shall immediately notify the Contract Administrator of new locations of permit species covered by the Incidental Take Permits (ITP) that are discovered within the area covered by the State's Habitat Conservation Plan (HCP), including, but not limited to: locations of occupied murrelet habitat; spotted owl nest sites; wolves; grizzly bears; nests, communal roosts,

or feeding concentrations of bald eagles; peregrine falcon nests; Columbian white-tailed deer; Aleutian Canada geese; Oregon silverspot butterflies; and additional stream reaches found to contain bull trout. Purchaser is required to notify the Contract Administrator upon discovery of any fish species found in streams or bodies of water classified as non-fish bearing. In all circumstances, notification must occur within a 24 hour time period.

- b. Upon locating any live, dead, injured, or sick specimens of any permit species covered by the ITP, Purchaser shall immediately notify the Contract Administrator. Purchaser shall notify the Contract Administrator if there is any doubt as to the identification of a discovered permit species. Purchaser may be required to take certain actions to help the Contract Administrator safeguard the well-being of any live, injured or sick specimens of any permit species discovered, until the proper disposition of such specimens can be determined by the Contract Administrator. Any such requirements will be explained to Purchaser by the Contract Administrator during the Pre-Work Conference. In all circumstances, notification must occur within a 24 hour time period.
- c. Purchaser shall refer to a specific ITP number, ITP TE812521-1 or ITP 1168 (copies which are located in the region office) in all correspondence and reports concerning permit activities.
- d. Provisions and requirements of the ITP shall be clearly presented and explained to Purchaser by Contract Administrator during the Pre-Work Conference as per contract clause G-330. All applicable provisions of the ITP and this schedule must be presented and clearly explained by Purchaser to all authorized officers, employees, contractors, or agents of Purchaser conducting authorized activities in the timber sale area. Any questions Purchaser may have about the ITP should be directed to the Contract Administrator.

G-064 Permits

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

G-065 Regulatory Disclaimer

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

G-066 Governmental Regulatory Actions

a. Risk

Purchaser shall be responsible for any increased operational costs arising from any applicable foreign or domestic governmental regulation or order that does

not cause contract performance to become commercially impracticable or that does not substantially frustrate the purpose of the contract. If impracticability or frustration results from Purchaser's failure to comply with this contract, Purchaser shall remain responsible for payment of the total contract price notwithstanding the impracticability or frustration.

b. Sale Area

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

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

c. Adjustment of Price

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

G-070 Limitation on Damage

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

G-080 Scope of State Advice

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

G-091 Sale Area Adjustment

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

G-101 Forest Products Not Designated

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

The pricing schedule has not been set for the sale.

G-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: PwC-SFIFM-513.

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 Purchaser's failure to take reasonable precautions or to exercise sound forest engineering and construction practices.

Road is defined as the road bed, including but not limited to its component parts, such as 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. 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.

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 Purchaser's expense regardless of cost, to remedy deficiencies at any time.

G-140 Indemnity

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

G-150 Insurance

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

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

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

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

Before starting work, Purchaser shall furnish State of Washington, Department of Natural Resources with a certificate(s) of insurance, executed by a duly authorized

representative of each insurer, showing compliance with the insurance requirements specified in the contract. Insurance coverage shall be obtained by the Purchaser prior to operations commencing and continually maintained in full force until all contract obligations have been satisfied or an operating release has been signed by the State.

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

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

All insurance provided in compliance with this contract shall be primary as to any other insurance or self-insurance programs afforded to or maintained by State. Purchaser waives all rights against State for recovery of damages to the extent these damages are covered by general liability or umbrella insurance maintained pursuant to this contract.

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

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

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

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

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

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

If Purchaser, subcontractor or sub-subcontractor fails to comply with all State of Washington workers' compensation statutes and regulations and State incurs fines or is required by law to provide benefits to or obtain coverage for such employees, Purchaser shall indemnify State. Indemnity shall include all fines, payment of benefits to Purchaser or subcontractor employees, or their heirs or legal representatives, and the cost of effecting coverage on behalf of such employees.

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

G-160 Agents

The State's rights and duties will be exercised by the Region Manager at 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.

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 Operation

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

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

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

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

G-230 Unauthorized Activity

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

G-240 Dispute Resolution

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

- a. In the event of a dispute, Purchaser must make a written request to the Region Manager for resolution prior to seeking other relief.
- b. The Region Manager will issue a written decision on Purchaser's request within ten business days.

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

G-250 Compliance with All Laws

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

G-260 Venue

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

G-270 Equipment Left on State Land

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

G-280 Operating Release

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

G-310 Road Use Authorization

Purchaser is authorized to use the following State roads and roads for which the State has acquired easements and road use permits; PA-J-1000, PA-J-1020, PA-J-1021, PA-J-1022, PA-J-BPA3844, PA-I-2600, PA-I-2610, PA-I-2620, Spur Road 1+25. The State may authorize in writing the use of other roads subject to fees, restrictions, and prior rights.

G-330 Pre-work Conference

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

G-340 Preservation of Markers

Any legal land subdivision survey corners and witness objects are to be preserved. If such are destroyed or disturbed, the Purchaser shall, at the Purchaser's own expense, re-establish them through a licensed land surveyor in accordance with U.S. General Land Office standards. Corners and/or witness objects that must be disturbed or destroyed in the process of road construction or logging shall be adequately referenced and/or replaced in accordance with RCW 58.24.040(8). Such references must be approved by the Contract Administrator prior to removal of said corners and/or witness objects.

G-360 Road Use Reservation

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

G-370 Blocking Roads

Purchaser shall not block the PA-J-1000, PA-J-1020, PA-J-1021, PA-I-2600, PA-I-2610, PA-I-2620, unless authority is granted in writing by the Contract Administrator.

G-430 Open Fires

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

G-450 Encumbrances

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

DATA MISSING

Section P: Payments and Securities

P-011 Initial Deposit

Purchaser paid DATA MISSING initial deposit, which will be maintained pursuant to RCW 79.15.100(3). If the operating authority on this contract expires without Purchaser's payment of the full amount specified in Clause P-020, the initial deposit will be immediately forfeited to the State, and will be offset against Purchaser's

remaining balance due. Any excess initial deposit funds not needed to ensure full payment of the contract price, or not needed to complete any remaining obligations of the Purchaser existing after contract expiration, will be refunded to the Purchaser.

P-020 Payment for Forest Products

Purchaser agrees to pay the total, lump sum contract price of \$6,396.00. The total contract price consists of a \$0.00 contract bid price plus \$6,396.00 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 \$0.00. The Security provided shall guarantee performance of all provisions of this contract and payment of any damages caused by operations under this contract or resulting from Purchaser's noncompliance with any rule or law. Acceptable performance security may be in the form of a performance bond, irrevocable letter of credit, cash, savings or certificate of deposit account assignments, and must name the State as the obligee or beneficiary. A letter of credit must comply with Title 62A RCW, Article 5. Performance security must remain in full force over the duration of the contract length. Surety bonds issued shall conform to the

issuance and rating requirements in clause G-150. The State shall retain the performance security pursuant to RCW 79.15.100. Purchaser shall not operate unless the performance security has been accepted by the State. If at any time the State decides that the security document or amount has become unsatisfactory, Purchaser agrees to suspend operations and, within 30 days of notification, to replace the security with one acceptable to the State or to supplement the amount of the existing security.

P-100 Performance Security Reduction

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

Section H: Harvesting Operations

H-010 Cutting and Yarding Schedule

Falling and Yarding will not be permitted from 8:00 p.m. to 6:00 a.m., and on weekends and State recognized holidays unless authorized in writing by the Contract Administrator.

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.

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-051 Branding and Painting

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

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

H-120 Harvesting Equipment

Forest products sold under this contract shall be harvested and removed using ground methods, with the following exceptions: rubber-tired and tracked skidders may operate within the BPA powerline right-of-way only. 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-130 Hauling Schedule

The hauling of forest products will not be permitted on weekends and State recognized holidays unless authorized in writing by the Contract Administrator.

H-140 Special Harvest Requirements

Purchaser shall accomplish the following during the harvest operations:

1. Purchaser must have utility lines located before beginning operations and/or construction. Contractor is responsible for the cost of repairing any damage to utility lines due to road or harvest operations. The following roads have potential for buried and/or overhead utilities: PA-J-1000, PA-J-1020, PA-J-1021, PA-J-1022, PA-J-BPA3844, Spur 1+25.
2. Purchaser shall immediately repair all gate damage resulting from operations to an equal or better condition than existed at the time of the sale.
3. Log loading and processing is restricted to designated landings as shown on the timber sale map.
4. Purchaser shall perform abandonment of all skid trails in the sale area, at the discretion of the Contract Administrator. Abandonment shall consist of re-establishing natural drainage and natural slopes, fluffing compacted soil to an

18 inch depth using shovel grapples, placing stumps and debris back into the trail, and installing water bars as directed by the Contract Administrator.

5. 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.
6. All utility logs shall be yarded concurrently with the yarding of other logs and shall be removed from the sale area.

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.

H-250 Additional Falling Requirements

Within Unit 1, all live stems greater than 2 inches in diameter, shall be felled. Areas of young or immature timber may be excluded from this requirement by the Contract Administrator.

Section C: Construction and Maintenance

C-040 Road Plan

Road construction and associated work provisions of the Road Plan for this sale, dated 5/14/2020 are hereby made a part of this contract.

C-050 Purchaser Road Maintenance and Repair

Purchaser shall perform work at their own expense on the PA-J-1022, PA-J-BPA3844, Spur 1+25. All work shall be completed to the specifications detailed in the Road Plan.

C-060 Designated Road Maintainer

If required by the State, Purchaser shall perform maintenance and replacement work as directed by the Contract Administrator on the PA-J-1000, PA-J-1020, PA-J-1021, PA-I-2600, PA-I-2610, PA-I-2620 and all other roads not covered in C-050. Purchaser shall furnish a statement in a form satisfactory to the State showing the costs incurred while performing this work. Costs shall be based on the rates set forth in the equipment

rate schedule on file at the Region office or Engineering Division in Olympia. The State shall reimburse Purchaser for said costs within 30 days of receipt and approval of the statement.

C-100 Landing Location Restricted

Landing locations are restricted to those shown on the timber sale map unless otherwise authorized in writing by the Contract Administrator.

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-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-110 Resource Protection

No harvest equipment may operate within leave tree areas, or areas of standing water unless authority is granted in writing by the Contract Administrator.

S-130 Hazardous Materials

a. Hazardous Materials and Waste - Regulatory Compliance

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

b. Hazardous Materials Spill Prevention

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

c. Hazardous Materials Spill Containment, Control and Cleanup

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

d. Hazardous Material Release Reporting

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

Appropriate Department of Ecology regional office (contact information below).

DNR Contract Administrator

ECY - Northwest Region:

1-425-649-7000
(Island, King, Kitsap, San Juan, Skagit, Snohomish, and Whatcom counties)

ECY - Southwest Region:
1-360-407-6300
(Clallam, Clark, Cowlitz, Grays Harbor, Jefferson, Mason, Lewis, Pacific, Pierce, Skamania, Thurston, and Wahkiakum counties)

ECY - Central Region:
1-509-575-2490
(Benton, Chelan, Douglas, Kittitas, Klickitat, Okanogan, and Yakima counties)

ECY - Eastern Region:
1-509-329-3400
(Adams, Asotin, Columbia, Ferry, Franklin, Garfield, Grant, Lincoln, Pend Oreille, Spokane, Stevens, Walla Walla, and Whitman counties)

S-131 Refuse Disposal

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

Section D: Damages

D-013 Liquidated Damages or Failure to Perform

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

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

D-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 the sale area.

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

STATE OF WASHINGTON
DEPARTMENT OF NATURAL RESOURCES

Purchaser

Print Name

Mona Griswold
Olympic Region Manager

Date: _____
Address: _____

Date: _____

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

STATE OF _____)

COUNTY OF _____)

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

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

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

Notary Public in and for the State of

My appointment expires _____

Schedule A
SLASH PILING SPECIFICATIONS

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

- A. Piles shall be a minimum of 12 feet tall by 8 feet wide to a maximum of 30 feet tall and 30 feet wide. Piles shall be cone shaped and stable.
- B. Piles shall be free of topsoil, large rotten logs and large stumps. Any unburnable material shall be well scattered.
- C. Piles shall not be placed on large stumps, logs, or against standing snags.
- D. Piles shall be stacked a minimum of 50 feet from all unit boundaries, Riparian Management Zones, leave trees, culverts, and any standing timber; a minimum of 100 feet from any public roads and highways; and a minimum of 200 feet from any structures.
- E. Piling shall be completed using an approved hydraulic shovel and grapples.
- F. Slash and displaced soil shall be removed from swales and natural drainage channels concurrent with yarding.
- G. Removal of slash piles from State land is optional.

Schedule B
Green Tree Retention Plan

Leave the following:

1. All trees banded with blue 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.

| <u>Unit#</u> | <u># of Individually Marked Trees</u> | <u># of Clumps</u> | <u># of Trees Clumped</u> | <u>Total # of Leave Trees</u> |
|--------------|---|--------------------|-------------------------------|-----------------------------------|
| 1 | 62 | 2 | 51 | 113 |



WASHINGTON STATE DEPARTMENT OF NATURAL RESOURCES

FOREST EXCISE TAX ROAD SUMMARY SHEET

Region:

Timber Sale Name:

Application Number:

EXCISE TAX APPLICABLE ACTIVITIES

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

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

Abandonment: linear feet
Abandonment of existing roads not reconstructed under the contract

Decommission: linear feet
Road to be made undriveable but not officially abandoned.

Pre-Haul Maintenance: linear feet
Existing road to receive maintenance work (optional and required) prior to haul

EXCISE TAX EXEMPT ACTIVITIES

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

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

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

(Revised 9/18)

**State of Washington
Department of Natural Resources
Timber Bill of Sale Extension Charges**

Extension Per Acre Charge Worksheet

Agreement No.:

Sale Name:

Region:

Sale Method:

Harvest Type:

Geographic Area:

Site Class (westside only):

- 1. Growth Loss
 - 2. Additional Growth
 - 3. Loss thru Disrupt.
- Per Acre Charge**

| Westside PC/Thin | | Westside Evenage | | Eastside PC/Thin | | Eastside Evenage | |
|------------------|---------------|------------------|-----------------|------------------|---------------|------------------|---------------|
| scale | lump | scale | lump | scale | lump | scale | lump |
| | | | 29.00 | | | | |
| | | | 923.36 | | | | |
| | | | 46.17 | | | | |
| \$0.00 | \$0.00 | \$0.00 | \$998.52 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |

Total Per Acre Charge:

This figure to be Input into the G-050 or G051 clause.

Cruising Packet Checklist

Sale Name: Powerline Alder
 Legal: Sec. 5 T30N R01W. Sec. 31 & 32 T31N R01W
 Grant(s) and %'s: 100% Clallam County 01 Trust
 Estimated Volume: 218 mbf

District: Straits
 Lead Forester: Jeremy Brown

| <u>ITEMS INSIDE this PACKET</u> | <u>Check off</u> |
|--|------------------|
| 1. Traverse Map with acreage | _____ |
| Λ Map scale (any scale as long as it's shown on map) One Unit Per Map | ___N/A___ |
| Λ Traverse points and corner ties (station numbers same as on the ground) | ___N/A___ |
| Λ Declination used for Traverse | ___N/A___ |
| 2. Logging Plan / Sale area map: | |
| Λ Map scale (any scale – one unit per page) | ___X___ |
| Λ Streams and Riparian areas | ___X___ |
| Λ Roads, Landings, & recommended Parking Spot | ___X___ |
| Λ Retention trees, marked / tagged information | ___X___ |
| Λ Take tree, marked/tagged information | ___N/A___ |
| Λ Mgt. Unit & Sale Boundary tag location | ___X___ |
| Λ Right of Ways marked / tagged | ___N/A___ |
| 3. Pre-Cruise Narrative (include unit percentages for grants) | ___X___ |
| 4. Vicinity Map (no scale) (with marked roads, mileage and significant landmarks...also are there other pvt. roads, etc... which access the sale) | ___X___ |
| 5. Gate Access – Unlocked Gate on the PA-J-1020 road. | |

PRE-CRUISE NARRATIVE

| | |
|---|-------------------------------|
| Sale Name: Powerline Alder | Region: Olympic |
| Agreement #: 30-0 | District: Port Angeles |
| Contact Forester: J. Brown Phone / Location: 360-391-5976, Port Angeles | County(s): Clallam |
| Alternate Contact: Cody Pagel Phone / Location: 360-640-9996, Port Angeles | Other information: |

| | |
|------------------------------|------|
| Type of Sale: Lump Sum | |
| Harvest System: Ground based | 100% |

UNIT ACREAGES AND METHOD OF DETERMINATION:

| Unit # | Legal Description (Enter only one legal for each unit) Sec/Twp/Rng | Grant or Trust | Gross Proposal Acres | Deductions from Gross Acres (No harvest acres) | | | | Net Harvest Acres | Acreage Determination (List method and error of closure if applicable) |
|--------------------|--|----------------|----------------------|---|------------------|---------------------|------------------------|-------------------|---|
| | | | | RMZ/ WMZ Acres | Leave Tree Acres | Existing Road Acres | Other Acres (describe) | | |
| 1 | Sec. 5 T30N R08W Sec. 31 & 32 T31N R08W | 01 | 14.5 | 0.5 | 0.4 | 0 | 0 | 13.6 | GPS (Garmin) |
| TOTAL ACRES | | | 14.5 | 0.5 | 0.4 | 0 | 0 | 13.6 | |

HARVEST PLAN AND SPECIAL CONDITIONS:

| Unit # | Harvest Prescription: (Leave, take, paint color, tags, flagging etc.) | Special Management areas: | Other conditions (# leave trees, etc.) |
|--------|--|---------------------------|---|
| 1 | Variable retention harvest, dispersed leave trees marked with blue paint. Leave tree areas marked by leave tree area tags. | None | 62 dispersed leave trees, and 51 clumped in 2 leave tree areas. |

OTHER PRE-CRUISE INFORMATION:

| Unit # | Primary,secondary Species / Estimated Volume (MBF) | Access information (Gates, locks, etc.) | Photos, traverse maps required |
|------------------|--|---|--------------------------------|
| 1 | 1 RA, 2 BM/ 218 MBF | Unlocked gate on the PA-J-1020 road. | Map enclosed |
| TOTAL MBF | 218 | | |

REMARKS:

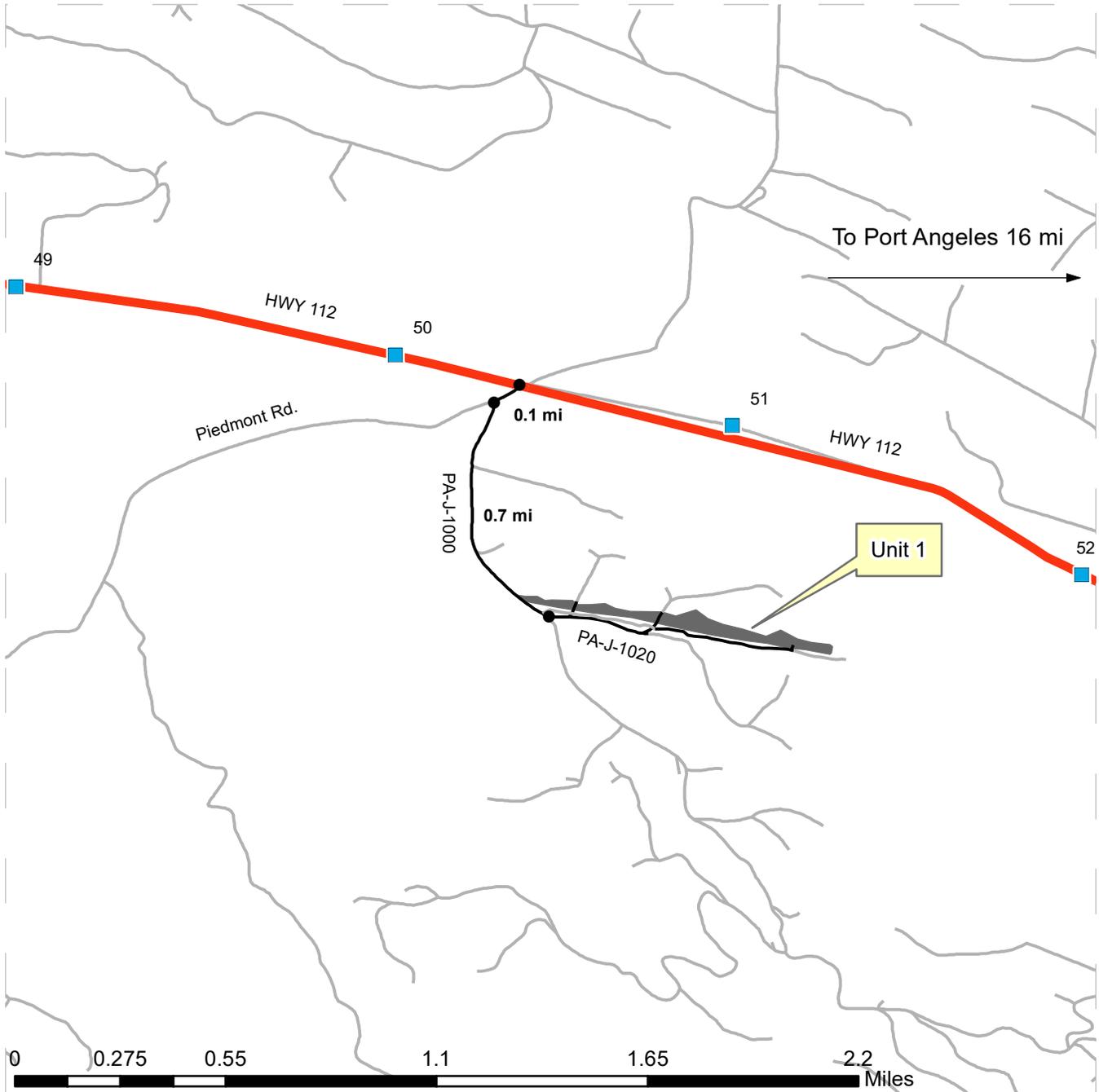
| |
|--|
| Lump Sum Region Sale. Timber sale is 100% Clallam County 01 Trust. |
|--|

| | | |
|---|-----------------------------|-----|
| Prepared By: Jeremy Brown Date: 3/9/2020 | Title: Small Sales Forester | CC: |
|---|-----------------------------|-----|

DRIVING MAP

SALE NAME: POWERLINE ALDER
AGREEMENT#: Not Defined
TOWNSHIP(S): T30R08W, T31R08W
TRUST(S): State Forest Transfer(1)

REGION: Olympic Region
COUNTY(S): CLALLAM
ELEVATION RGE: 178-2455



| | |
|--|--------------------|
| | Timber Sale Unit |
| | Highway |
| | Other Road |
| | Haul Route |
| | Milepost Markers |
| | distance_indicator |

DRIVING DIRECTIONS:

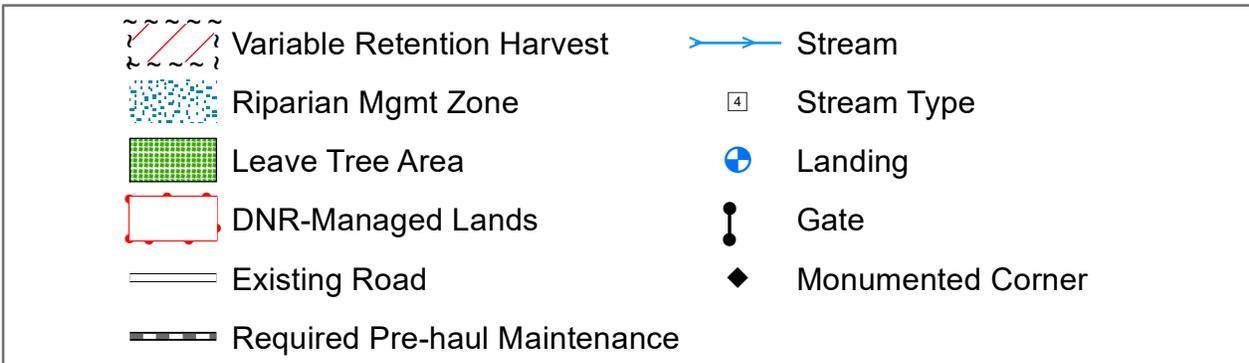
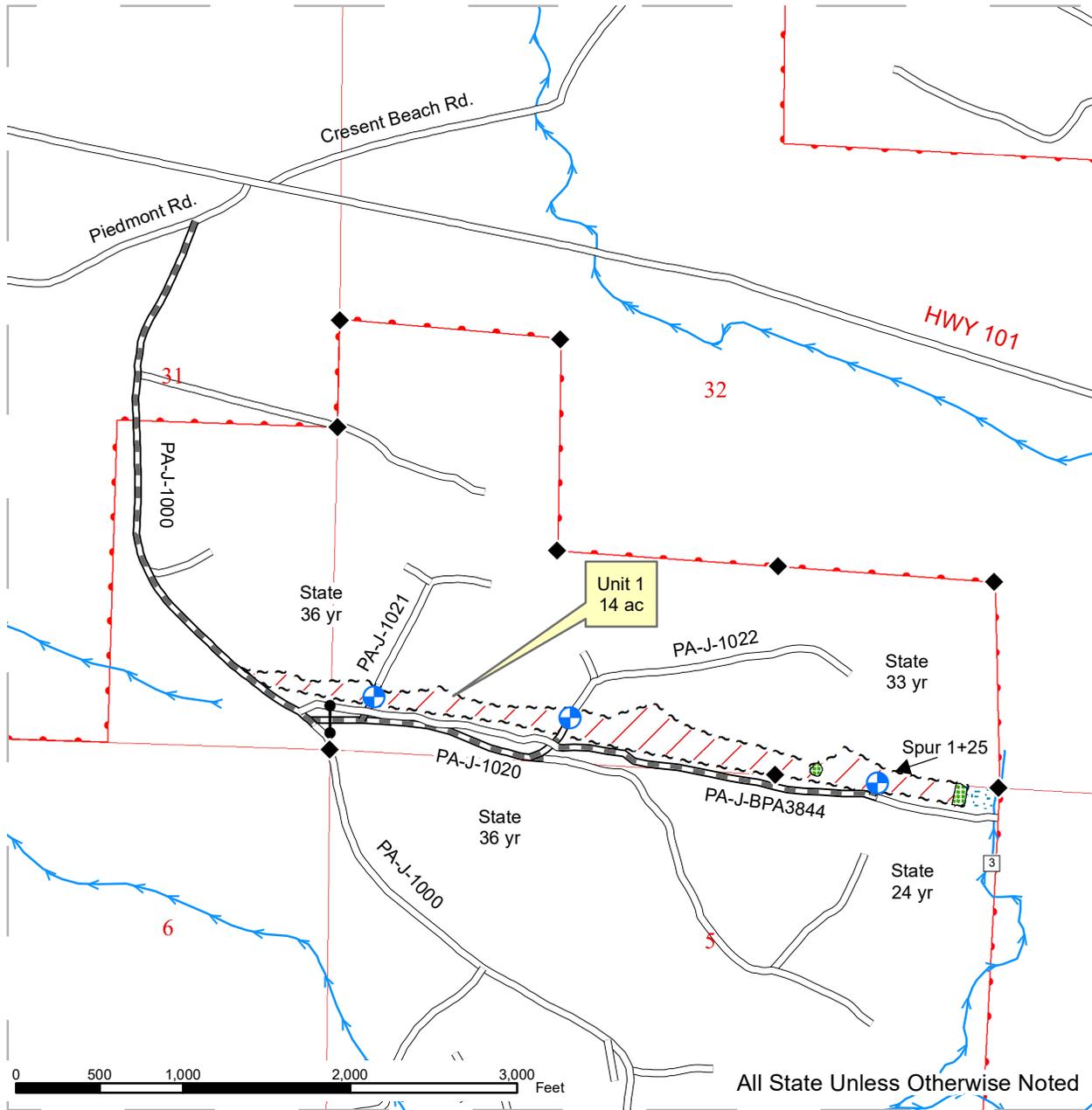
Unit 1
 From milepost 51 on Hwy 112 travel 0.5 miles west and turn left onto Piedmont Rd.
 Follow Piedmont Rd southwest for 0.1 miles to the PA-J-1000 road on the left.
 Turn left onto the PA-J-1000 and travel south for 0.7 miles. Turn left onto the PA-J-1020 road
 and drive through the gate. Unit 1 is on your left.



TIMBER SALE MAP

SALE NAME: Powerline Alder
AGREEMENT #: not defined
TOWNSHIP(S): T30R08W, T31R08W
TRUST(S): State Forest Board-Transfer (01)

REGION: Olympic
COUNTY(S): Clallam



Cruise Narrative

| | |
|-------------------------------------|-----------------------------------|
| Sale Name: Powerline Alder | Region: Olympic |
| Agreement #: 30- | District: Straits |
| Lead Cruiser: Kevin Peterson | Completion Date: 4/02/2020 |
| Other Cruisers: None | |

Unit acreage specifications:

| Unit # | Cruised Acres | Cruised acres agree with sale acres? Y/N | If acres do not agree explain why. |
|--------------|---------------|--|------------------------------------|
| 1 | 13.6 | Y | |
| Total | 13.6 | Y | |

Sale/Cruise Description:

| | | | | |
|---------------------------------------|--|-----|-------------|-----|
| Minor species cruise intensity | All species cruised with a 54.44 BAF | | | |
| Minimum cruise spec: | 40% of Form Factor at 16 ft. D.O.B or 5 inch top. | | | |
| Average ring count: | DF = | N/A | WH = | N/A |
| Leave/take tree description: | Leave tree clumps are bounded out with yellow tags, pink flashers and blue paint. Individual leave trees are marked with blue bands and two blue butt marks. | | | |
| Other conditions: | Exterior boundaries are marked with white tags and pink flashers | | | |

| | |
|---------------------------------|--|
| <p>Sort Description:</p> | <p>HA– Logs meeting the following criteria: Surface characteristics for a high quality A sort will have sound tight knots not to exceed 1 ½” in diameter, numbering not more than an average of one per foot of log length. May include logs with not more than two larger knots. Knots and knot indicators ½” in diameter and smaller shall not be a determining factor. Logs will have a growth ring count of 6 or more rings per inch in the outer third top end of the log. (minimum diameter 8”.)</p> <p>R – Logs meeting the following criteria: Gross diameter of 12 inches or greater, excessive knots greater than 2 ½ inches with recovery less than 65% of the net scale.</p> |
|---------------------------------|--|

Field Observations:

Powerline Alder is a small one unit sale located on the Joyce Access Road next to a transmission powerline. There is 13.6 total harvestable acres and access to the unit is great. This sale is 100% ground based.

This sale has a total volume of 246.1 MBF and is comprised of 91% Red Alder, 4% Bigleaf Maple, 2% Western Red Cedar, 2% Douglas-fir and 1% Western Hemlock. The alder is pretty clean and saw no black knot in the sale. Common defects in the alder were sweep and forked tops.

Grants: 01

Prepared By: Kevin Peterson – Olympic Region Cruiser

Timber Sale Cruise Report Powerline Alder

Sale Name: POWERLINE ALDER

Sale Type: LUMP SUM

Region: OLYMPIC

District: STRAITS

Lead Cruiser: Kevin Peterson

Other Cruisers:

Cruise Narrative:

Timber Sale Notice Volume (MBF)

| Sp | QMD | Rings/In | Age | MBF Volume by Grade | | | | |
|-----|------|----------|-----|---------------------|-------|-------|-------|---------|
| | | | | All | 2 Saw | 3 Saw | 4 Saw | Utility |
| RA | 11.6 | | | 225.1 | 5.2 | 4.3 | 206.3 | 9.2 |
| MA | 13.7 | | | 8.8 | 2.1 | 1.4 | 5.1 | 0.2 |
| RC | 10.8 | | | 5.5 | | 3.3 | 2.2 | |
| DF | 12.8 | | | 4.2 | | 2.0 | 0.5 | 1.7 |
| WH | 10.5 | | | 2.5 | | | 2.0 | 0.4 |
| ALL | 11.7 | | | 246.1 | 7.2 | 11.1 | 216.2 | 11.5 |

Timber Sale Notice Weight (tons)

| Sp | Tons by Grade | | | | |
|-----|---------------|-------|-------|---------|---------|
| | All | 2 Saw | 3 Saw | 4 Saw | Utility |
| RA | 2,416.2 | 58.3 | 44.1 | 2,080.9 | 233.0 |
| MA | 108.3 | 21.7 | 20.6 | 65.0 | 1.0 |
| RC | 45.6 | | 34.5 | 11.1 | |
| DF | 43.0 | | 21.3 | 3.9 | 17.8 |
| WH | 27.3 | | | 19.3 | 8.0 |
| ALL | 2,640.4 | 79.9 | 120.5 | 2,180.1 | 259.8 |

Timber Sale Overall Cruise Statistics (Cut + Leave Trees)

| BA (sq ft/acre) | BA SE (%) | V-BAR (bf/sq ft) | V-BAR SE (%) | Net Vol (bf/acre) | Vol SE (%) |
|--------------------|--------------|---------------------|-----------------|----------------------|---------------|
| 252.0 | 7.4 | 71.8 | 4.1 | 18,095 | 8.5 |

Timber Sale Unit Cruise Design

| Unit | Design | Cruise Acres | FMA Acres | N Plots | N Cruise Plots | N Void Plots |
|-----------------------|--|--------------|-----------|---------|----------------|--------------|
| POWERLINE ALDER U1 | B2C: VR, 2 BAF (54.44, 40 for some species) Measure/Count Plots, Sighting Ht = 4.5 ft | 13.6 | 14.0 | 27 | 12 | 0 |
| All | | 13.6 | 14.0 | 27 | 12 | 0 |

Timber Sale Log Grade x Diameter Bin Summary

| Sp | Bin | Status | Grade | Dia | Len | BF Net | Defect % | Tons | MBF Net |
|----|---------|--------|---------|------|------|--------|----------|---------|---------|
| DF | 5 - 8 | LIVE | 4 SAW | 5.0 | 22.0 | 35 | 0.0 | 3.9 | 0.5 |
| DF | 5 - 8 | LIVE | UTILITY | 5.0 | 37.0 | 122 | 0.0 | 17.8 | 1.7 |
| DF | 9 - 11 | LIVE | 3 SAW | 9.2 | 40.0 | 150 | 10.3 | 21.3 | 2.0 |
| MA | 5 - 8 | LIVE | UTILITY | 5.2 | 9.0 | 14 | 0.0 | 1.0 | 0.2 |
| MA | 5 - 8 | LIVE | 4 SAW | 5.9 | 23.0 | 304 | 10.8 | 46.2 | 4.1 |
| MA | 9 - 11 | LIVE | 4 SAW | 9.5 | 40.0 | 73 | 25.0 | 18.7 | 1.0 |
| MA | 9 - 11 | LIVE | 3 SAW | 10.7 | 40.0 | 105 | 25.5 | 20.6 | 1.4 |
| MA | 12 - 14 | LIVE | 2 SAW | 13.5 | 40.0 | 152 | 9.9 | 21.7 | 2.1 |
| RA | < 5 | LIVE | UTILITY | 2.2 | 15.0 | 678 | 0.0 | 233.0 | 9.2 |
| RA | 5 - 8 | LIVE | 4 SAW | 5.9 | 33.0 | 14,374 | 6.1 | 1,967.9 | 195.5 |
| RA | 9 - 11 | LIVE | 4 SAW | 9.6 | 40.0 | 798 | 7.8 | 112.9 | 10.8 |
| RA | 9 - 11 | LIVE | 3 SAW | 11.6 | 30.0 | 318 | 13.6 | 44.1 | 4.3 |
| RA | 12 - 14 | LIVE | 2 SAW | 12.8 | 40.0 | 381 | 10.2 | 58.3 | 5.2 |
| RC | 5 - 8 | LIVE | 4 SAW | 5.1 | 18.0 | 165 | 0.0 | 11.1 | 2.2 |
| RC | 5 - 8 | LIVE | CULL | 5.3 | 6.0 | 0 | 100.0 | 0.0 | 0.0 |
| RC | 5 - 8 | LIVE | 3 SAW | 7.8 | 33.0 | 38 | 15.3 | 7.1 | 0.5 |
| RC | 15 - 19 | LIVE | 3 SAW | 16.2 | 36.0 | 205 | 25.0 | 27.5 | 2.8 |
| WH | < 5 | LIVE | UTILITY | 3.4 | 19.0 | 32 | 0.0 | 8.0 | 0.4 |
| WH | 5 - 8 | LIVE | 4 SAW | 5.2 | 25.0 | 150 | 0.0 | 19.3 | 2.0 |

Timber Sale Log Sort x Diameter Bin Summary

| Sp | Bin | Status | Sort | Dia | Len | BF Net | Defect % | Tons | MBF Net |
|----|--------|--------|----------|------|------|--------|----------|------|---------|
| DF | 5 - 8 | LIVE | Domestic | 5.0 | 22.0 | 35 | 0.0 | 3.9 | 0.5 |
| DF | 5 - 8 | LIVE | Pulp | 5.0 | 37.0 | 122 | 0.0 | 17.8 | 1.7 |
| DF | 9 - 11 | LIVE | Domestic | 9.2 | 40.0 | 150 | 10.3 | 21.3 | 2.0 |
| MA | 5 - 8 | LIVE | Pulp | 5.2 | 9.0 | 14 | 0.0 | 1.0 | 0.2 |
| MA | 5 - 8 | LIVE | Domestic | 5.9 | 23.0 | 304 | 10.8 | 46.2 | 4.1 |
| MA | 9 - 11 | LIVE | Domestic | 10.1 | 40.0 | 178 | 25.3 | 39.4 | 2.4 |

| Sp | Bin | Status | Sort | Dia | Len | BF Net | Defect % | Tons | MBF Net |
|----|---------|--------|----------|------|------|--------|----------|---------|---------|
| MA | 12 - 14 | LIVE | Domestic | 13.5 | 40.0 | 152 | 9.9 | 21.7 | 2.1 |
| RA | < 5 | LIVE | Pulp | 2.2 | 15.0 | 678 | 0.0 | 233.0 | 9.2 |
| RA | 5 - 8 | LIVE | Domestic | 5.9 | 33.0 | 14,374 | 6.1 | 1,967.9 | 195.5 |
| RA | 9 - 11 | LIVE | Domestic | 10.1 | 37.0 | 1,116 | 9.5 | 157.0 | 15.2 |
| RA | 12 - 14 | LIVE | Domestic | 12.8 | 40.0 | 381 | 10.2 | 58.3 | 5.2 |
| RC | 5 - 8 | LIVE | Cull | 5.3 | 6.0 | 0 | 100.0 | 0.0 | 0.0 |
| RC | 5 - 8 | LIVE | Domestic | 5.3 | 19.0 | 203 | 3.3 | 18.1 | 2.8 |
| RC | 15 - 19 | LIVE | Domestic | 16.2 | 36.0 | 205 | 25.0 | 27.5 | 2.8 |
| WH | < 5 | LIVE | Pulp | 3.4 | 19.0 | 32 | 0.0 | 8.0 | 0.4 |
| WH | 5 - 8 | LIVE | Domestic | 5.2 | 25.0 | 150 | 0.0 | 19.3 | 2.0 |

Timber Sale Distribution of Volume by County and Timber Trust by Sale Unit

| Unit | Harvest Type | N Trusts | Timber Trust | County | Unit MBF | Sale MBF | Unit % of Sale | Trust % of Unit | Trust % of Sale |
|-----------------------|--------------|----------|--------------|---------|----------|----------|----------------|-----------------|-----------------|
| POWERLINE ALDER U1 | VRH | 1 | 1 | Clallam | 246.1 | 246.1 | 100.00 | 100.00 | 100.00 |

Timber Sale Distribution of Volume by County and Timber Trust for the Timber Sale

| Timber Trust | County | Trust % of Sale |
|--------------|---------|-----------------|
| 1 | Clallam | 100.00 |

Cruise Unit Report POWERLINE ALDER U1

Unit Sale Notice Volume (MBF): POWERLINE ALDER U1

| Sp | QMD | Rings/In | Age | MBF Volume by Grade | | | | |
|-----|------|----------|-----|---------------------|-------|-------|-------|---------|
| | | | | All | 2 Saw | 3 Saw | 4 Saw | Utility |
| RA | 11.6 | | | 225.1 | 5.2 | 4.3 | 206.3 | 9.2 |
| MA | 13.7 | | | 8.8 | 2.1 | 1.4 | 5.1 | 0.2 |
| RC | 10.8 | | | 5.5 | | 3.3 | 2.2 | |
| DF | 12.8 | | | 4.2 | | 2.0 | 0.5 | 1.7 |
| WH | 10.5 | | | 2.5 | | | 2.0 | 0.4 |
| ALL | 11.7 | | | 246.1 | 7.2 | 11.1 | 216.2 | 11.5 |

Unit Sale Notice Weight (tons): POWERLINE ALDER U1

| Sp | Tons by Grade | | | | |
|-----|---------------|-------|-------|---------|---------|
| | All | 2 Saw | 3 Saw | 4 Saw | Utility |
| RA | 2,416.2 | 58.3 | 44.1 | 2,080.9 | 233.0 |
| MA | 108.3 | 21.7 | 20.6 | 65.0 | 1.0 |
| RC | 45.6 | | 34.5 | 11.1 | |
| DF | 43.0 | | 21.3 | 3.9 | 17.8 |
| WH | 27.3 | | | 19.3 | 8.0 |
| ALL | 2,640.4 | 79.9 | 120.5 | 2,180.1 | 259.8 |

Unit Cruise Design: POWERLINE ALDER U1

| Design | Cruise Acres | FMA Acres | N Plots | N Cruise Plots | N Void Plots |
|--|--------------|-----------|---------|----------------|--------------|
| B2C: VR, 2 BAF (54.44, 40 for some species) Measure/Count Plots, Sighting Ht = 4.5 ft | 13.6 | 14.0 | 27 | 12 | 0 |

Unit Cruise Summary: POWERLINE ALDER U1

| Sp | Cruised Trees | All Trees | Trees/Plot | Ring-Count Trees |
|-----|---------------|-----------|------------|------------------|
| RA | 43 | 111 | 4.1 | 0 |
| MA | 6 | 6 | 0.2 | 0 |
| RC | 2 | 3 | 0.1 | 0 |
| DF | 2 | 2 | 0.1 | 0 |
| WH | 2 | 3 | 0.1 | 0 |
| ALL | 55 | 125 | 4.6 | 0 |

Unit Cruise Statistics (Cut + Leave Trees): POWERLINE ALDER 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 (%) |
|-----|--------------------|--------------|--------------|---------------------|-----------------|-----------------|----------------------|---------------|---------------|
| RA | 223.8 | 43.4 | 8.3 | 73.9 | 26.9 | 4.1 | 16,549 | 51.0 | 9.3 |
| MA | 12.1 | 259.8 | 50.0 | 53.7 | 36.0 | 14.7 | 649 | 262.3 | 52.1 |
| RC | 6.0 | 288.2 | 55.5 | 67.5 | 27.3 | 19.3 | 408 | 289.5 | 58.7 |
| DF | 4.0 | 360.3 | 69.3 | 76.1 | 28.8 | 20.4 | 307 | 361.4 | 72.3 |
| WH | 6.0 | 288.2 | 55.5 | 30.1 | 91.5 | 64.7 | 182 | 302.4 | 85.2 |
| ALL | 252.0 | 38.4 | 7.4 | 71.8 | 30.3 | 4.1 | 18,095 | 49.0 | 8.5 |

Unit Summary: POWERLINE ALDER U1

| Sp | Status | Rx | N | D | QMD | BL | THT | BF Net | Defect % | TPA | BA | RD | Tons | MBF Net |
|-----|--------|-----|----|-----|------|----|-----|--------|----------|-------|-------|------|---------|---------|
| DF | LIVE | CUT | 2 | ALL | 12.8 | 52 | 64 | 307 | 5.3 | 4.5 | 4.0 | 1.1 | 43.0 | 4.2 |
| MA | LIVE | CUT | 6 | ALL | 13.7 | 34 | 40 | 649 | 14.9 | 11.8 | 12.1 | 3.3 | 108.3 | 8.8 |
| RA | LIVE | CUT | 43 | ALL | 11.6 | 49 | 59 | 16,549 | 6.2 | 305.0 | 223.8 | 65.7 | 2,416.2 | 225.1 |
| RC | LIVE | CUT | 2 | ALL | 10.8 | 28 | 32 | 408 | 16.4 | 9.5 | 6.0 | 1.8 | 45.6 | 5.5 |
| WH | LIVE | CUT | 2 | ALL | 10.5 | 26 | 29 | 182 | 0.0 | 10.1 | 6.0 | 1.9 | 27.3 | 2.5 |
| ALL | LIVE | CUT | 55 | ALL | 11.6 | 47 | 57 | 18,095 | 6.7 | 340.9 | 251.9 | 73.8 | 2,640.4 | 246.1 |
| ALL | ALL | ALL | 55 | ALL | 11.6 | 47 | 57 | 18,095 | 6.7 | 340.9 | 251.9 | 73.8 | 2,640.4 | 246.1 |

Unit Stand Table: POWERLINE ALDER U1

| Sp | D | Status | Rx | N | QMD | BL | THT | BF Net | Defect % | TPA | BA | RD | Tons | MBF Net |
|----|----|--------|-----|----|------|----|-----|--------|----------|------|------|------|-------|---------|
| DF | 12 | LIVE | CUT | 1 | 11.0 | 46 | 56 | 122 | 0.0 | 3.0 | 2.0 | 0.6 | 17.8 | 1.7 |
| DF | 16 | LIVE | CUT | 1 | 16.0 | 65 | 81 | 185 | 8.6 | 1.4 | 2.0 | 0.5 | 25.2 | 2.5 |
| MA | 8 | LIVE | CUT | 1 | 8.0 | 20 | 21 | 98 | 0.0 | 5.8 | 2.0 | 0.7 | 6.2 | 1.3 |
| MA | 14 | LIVE | CUT | 1 | 13.0 | 36 | 42 | 68 | 11.4 | 2.2 | 2.0 | 0.6 | 14.2 | 0.9 |
| MA | 16 | LIVE | CUT | 1 | 16.0 | 52 | 63 | 115 | 18.4 | 1.4 | 2.0 | 0.5 | 21.3 | 1.6 |
| MA | 20 | LIVE | CUT | 1 | 20.0 | 56 | 68 | 120 | 23.1 | 0.9 | 2.0 | 0.5 | 22.6 | 1.6 |
| MA | 22 | LIVE | CUT | 1 | 21.0 | 47 | 56 | 73 | 25.0 | 0.8 | 2.0 | 0.4 | 18.7 | 1.0 |
| MA | 24 | LIVE | CUT | 1 | 23.0 | 64 | 79 | 175 | 9.7 | 0.7 | 2.0 | 0.4 | 25.2 | 2.4 |
| RA | 8 | LIVE | CUT | 4 | 8.0 | 39 | 46 | 1,730 | 0.0 | 59.6 | 20.8 | 7.4 | 167.3 | 23.5 |
| RA | 10 | LIVE | CUT | 8 | 10.0 | 49 | 59 | 3,016 | 7.3 | 76.3 | 41.6 | 13.2 | 428.3 | 41.0 |
| RA | 12 | LIVE | CUT | 11 | 11.4 | 49 | 59 | 3,760 | 6.9 | 80.5 | 57.3 | 16.9 | 591.3 | 51.1 |
| RA | 14 | LIVE | CUT | 12 | 13.6 | 57 | 69 | 4,965 | 5.6 | 62.3 | 62.5 | 17.0 | 738.4 | 67.5 |
| RA | 16 | LIVE | CUT | 6 | 15.6 | 56 | 68 | 2,307 | 7.4 | 23.4 | 31.2 | 7.9 | 365.4 | 31.4 |
| RA | 18 | LIVE | CUT | 1 | 18.0 | 52 | 63 | 330 | 13.2 | 2.9 | 5.2 | 1.2 | 55.1 | 4.5 |
| RA | 22 | LIVE | CUT | 1 | 21.0 | 66 | 81 | 441 | 10.1 | 2.2 | 5.2 | 1.1 | 70.4 | 6.0 |
| RC | 8 | LIVE | CUT | 1 | 8.0 | 24 | 27 | 165 | 0.0 | 8.6 | 3.0 | 1.1 | 11.1 | 2.2 |

| Sp | D | Status | Rx | N | QMD | BL | THT | BF Net | Defect % | TPA | BA | RD | Tons | MBF Net |
|----|----|--------|-----|---|------|----|-----|--------|----------|-----|-----|-----|------|---------|
| RC | 28 | LIVE | CUT | 1 | 27.0 | 71 | 90 | 243 | 24.7 | 0.8 | 3.0 | 0.6 | 34.5 | 3.3 |
| WH | 10 | LIVE | CUT | 1 | 10.0 | 31 | 36 | 150 | 0.0 | 5.5 | 3.0 | 0.9 | 19.3 | 2.0 |
| WH | 12 | LIVE | CUT | 1 | 11.0 | 20 | 21 | 32 | 0.0 | 4.5 | 3.0 | 0.9 | 8.0 | 0.4 |

Unit Log Grade Summary: POWERLINE ALDER U1

| Sp | Status | Grade | Dia | Len | BF Net | Defect % | Tons | MBF Net |
|----|--------|---------|------|------|--------|----------|---------|---------|
| DF | LIVE | 3 SAW | 9.2 | 40.0 | 150 | 10.3 | 21.3 | 2.0 |
| DF | LIVE | 4 SAW | 5.0 | 22.0 | 35 | 0.0 | 3.9 | 0.5 |
| DF | LIVE | UTILITY | 5.0 | 37.0 | 122 | 0.0 | 17.8 | 1.7 |
| MA | LIVE | 2 SAW | 13.5 | 40.0 | 152 | 9.9 | 21.7 | 2.1 |
| MA | LIVE | 3 SAW | 10.7 | 40.0 | 105 | 25.5 | 20.6 | 1.4 |
| MA | LIVE | 4 SAW | 6.2 | 24.0 | 377 | 14.0 | 65.0 | 5.1 |
| MA | LIVE | UTILITY | 5.2 | 9.0 | 14 | 0.0 | 1.0 | 0.2 |
| RA | LIVE | 2 SAW | 12.8 | 40.0 | 381 | 10.2 | 58.3 | 5.2 |
| RA | LIVE | 3 SAW | 11.6 | 30.0 | 318 | 13.6 | 44.1 | 4.3 |
| RA | LIVE | 4 SAW | 6.0 | 33.0 | 15,172 | 6.2 | 2,080.9 | 206.3 |
| RA | LIVE | UTILITY | 2.2 | 15.0 | 678 | 0.0 | 233.0 | 9.2 |
| RC | LIVE | 3 SAW | 12.0 | 35.0 | 243 | 23.6 | 34.5 | 3.3 |
| RC | LIVE | 4 SAW | 5.1 | 18.0 | 165 | 0.0 | 11.1 | 2.2 |
| RC | LIVE | CULL | 5.3 | 6.0 | 0 | 100.0 | 0.0 | 0.0 |
| WH | LIVE | 4 SAW | 5.2 | 25.0 | 150 | 0.0 | 19.3 | 2.0 |
| WH | LIVE | UTILITY | 3.4 | 19.0 | 32 | 0.0 | 8.0 | 0.4 |

Unit Log Sort Summary: POWERLINE ALDER U1

| Sp | Status | Grade | Dia | Len | BF Net | Defect % | Tons | MBF Net |
|----|--------|----------|-----|------|--------|----------|---------|---------|
| DF | LIVE | Domestic | 7.1 | 31.0 | 185 | 8.6 | 25.2 | 2.5 |
| DF | LIVE | Pulp | 5.0 | 37.0 | 122 | 0.0 | 17.8 | 1.7 |
| MA | LIVE | Domestic | 6.9 | 26.0 | 635 | 15.2 | 107.3 | 8.6 |
| MA | LIVE | Pulp | 5.2 | 9.0 | 14 | 0.0 | 1.0 | 0.2 |
| RA | LIVE | Domestic | 6.1 | 33.0 | 15,871 | 6.5 | 2,183.2 | 215.8 |
| RA | LIVE | Pulp | 2.2 | 15.0 | 678 | 0.0 | 233.0 | 9.2 |
| RC | LIVE | Cull | 5.3 | 6.0 | 0 | 100.0 | 0.0 | 0.0 |
| RC | LIVE | Domestic | 6.1 | 20.0 | 408 | 15.6 | 45.6 | 5.5 |
| WH | LIVE | Domestic | 5.2 | 25.0 | 150 | 0.0 | 19.3 | 2.0 |
| WH | LIVE | Pulp | 3.4 | 19.0 | 32 | 0.0 | 8.0 | 0.4 |

Unit Log Grade x Sort Summary: POWERLINE ALDER U1

| Sp | Status | Grade | Sort | Dia | Len | BF Net | Defect % | Tons | MBF Net |
|----|--------|---------|----------|------|------|--------|----------|---------|---------|
| DF | LIVE | 3 SAW | Domestic | 9.2 | 40.0 | 150 | 10.3 | 21.3 | 2.0 |
| DF | LIVE | 4 SAW | Domestic | 5.0 | 22.0 | 35 | 0.0 | 3.9 | 0.5 |
| DF | LIVE | UTILITY | Pulp | 5.0 | 37.0 | 122 | 0.0 | 17.8 | 1.7 |
| MA | LIVE | 2 SAW | Domestic | 13.5 | 40.0 | 152 | 9.9 | 21.7 | 2.1 |
| MA | LIVE | 3 SAW | Domestic | 10.7 | 40.0 | 105 | 25.5 | 20.6 | 1.4 |
| MA | LIVE | 4 SAW | Domestic | 6.2 | 24.0 | 377 | 14.0 | 65.0 | 5.1 |
| MA | LIVE | UTILITY | Pulp | 5.2 | 9.0 | 14 | 0.0 | 1.0 | 0.2 |
| RA | LIVE | 2 SAW | Domestic | 12.8 | 40.0 | 381 | 10.2 | 58.3 | 5.2 |
| RA | LIVE | 3 SAW | Domestic | 11.6 | 30.0 | 318 | 13.6 | 44.1 | 4.3 |
| RA | LIVE | 4 SAW | Domestic | 6.0 | 33.0 | 15,172 | 6.2 | 2,080.9 | 206.3 |
| RA | LIVE | UTILITY | Pulp | 2.2 | 15.0 | 678 | 0.0 | 233.0 | 9.2 |
| RC | LIVE | 3 SAW | Domestic | 12.0 | 35.0 | 243 | 23.6 | 34.5 | 3.3 |
| RC | LIVE | 4 SAW | Domestic | 5.1 | 18.0 | 165 | 0.0 | 11.1 | 2.2 |
| RC | LIVE | CULL | Cull | 5.3 | 6.0 | 0 | 100.0 | 0.0 | 0.0 |
| WH | LIVE | 4 SAW | Domestic | 5.2 | 25.0 | 150 | 0.0 | 19.3 | 2.0 |
| WH | LIVE | UTILITY | Pulp | 3.4 | 19.0 | 32 | 0.0 | 8.0 | 0.4 |

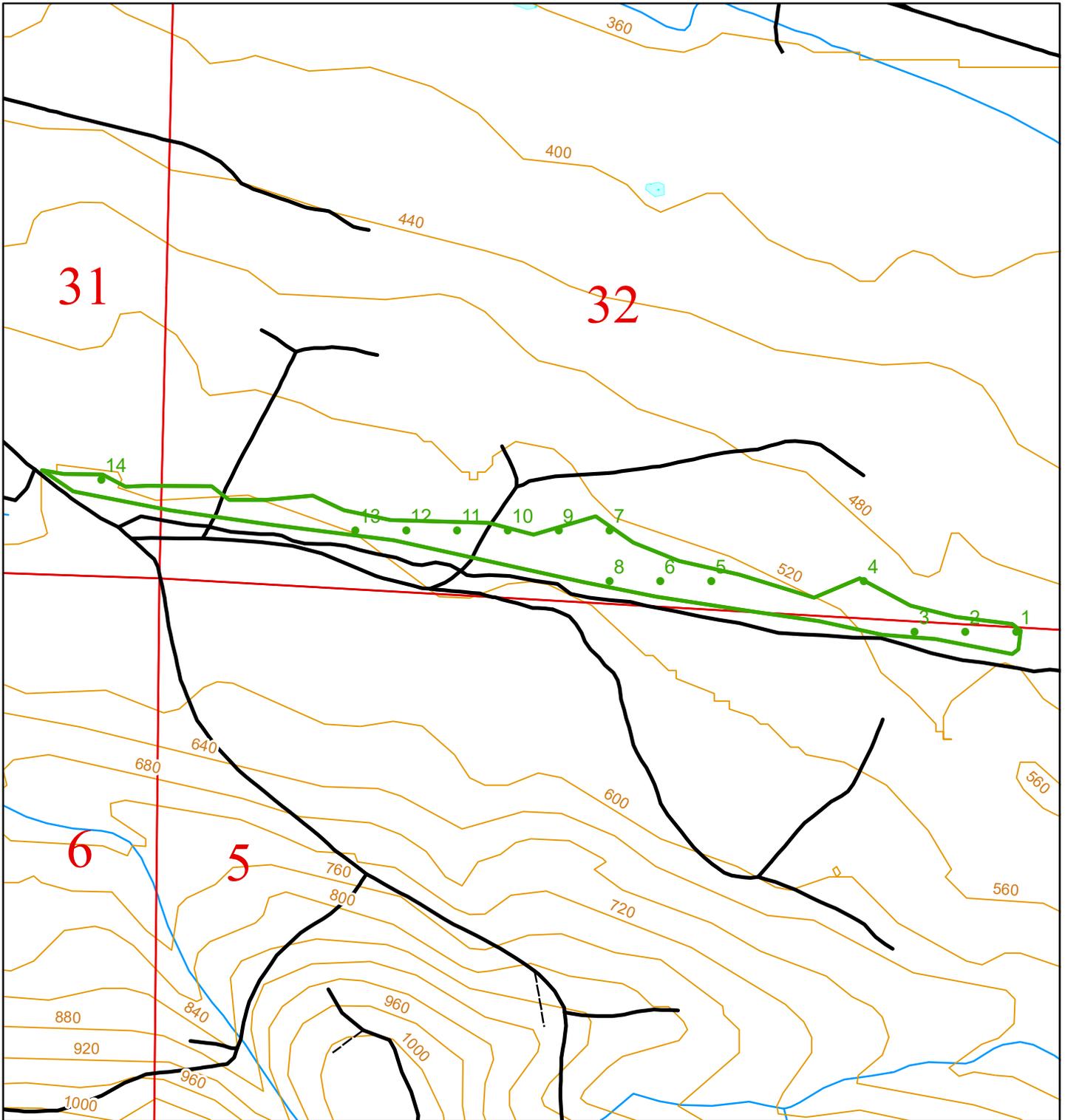
Unit Log Grade x Diameter Bin Summary: POWERLINE ALDER U1

| Sp | Bin | Status | Grade | Dia | Len | BF Net | Defect % | Tons | MBF Net |
|----|---------|--------|---------|------|------|--------|----------|---------|---------|
| DF | 5 - 8 | LIVE | 4 SAW | 5.0 | 22.0 | 35 | 0.0 | 3.9 | 0.5 |
| DF | 5 - 8 | LIVE | UTILITY | 5.0 | 37.0 | 122 | 0.0 | 17.8 | 1.7 |
| DF | 9 - 11 | LIVE | 3 SAW | 9.2 | 40.0 | 150 | 10.3 | 21.3 | 2.0 |
| MA | 5 - 8 | LIVE | UTILITY | 5.2 | 9.0 | 14 | 0.0 | 1.0 | 0.2 |
| MA | 5 - 8 | LIVE | 4 SAW | 5.9 | 23.0 | 304 | 10.8 | 46.2 | 4.1 |
| MA | 9 - 11 | LIVE | 4 SAW | 9.5 | 40.0 | 73 | 25.0 | 18.7 | 1.0 |
| MA | 9 - 11 | LIVE | 3 SAW | 10.7 | 40.0 | 105 | 25.5 | 20.6 | 1.4 |
| MA | 12 - 14 | LIVE | 2 SAW | 13.5 | 40.0 | 152 | 9.9 | 21.7 | 2.1 |
| RA | < 5 | LIVE | UTILITY | 2.2 | 15.0 | 678 | 0.0 | 233.0 | 9.2 |
| RA | 5 - 8 | LIVE | 4 SAW | 5.9 | 33.0 | 14,374 | 6.1 | 1,967.9 | 195.5 |
| RA | 9 - 11 | LIVE | 4 SAW | 9.6 | 40.0 | 798 | 7.8 | 112.9 | 10.8 |
| RA | 9 - 11 | LIVE | 3 SAW | 11.6 | 30.0 | 318 | 13.6 | 44.1 | 4.3 |
| RA | 12 - 14 | LIVE | 2 SAW | 12.8 | 40.0 | 381 | 10.2 | 58.3 | 5.2 |
| RC | 5 - 8 | LIVE | 4 SAW | 5.1 | 18.0 | 165 | 0.0 | 11.1 | 2.2 |
| RC | 5 - 8 | LIVE | CULL | 5.3 | 6.0 | 0 | 100.0 | 0.0 | 0.0 |
| RC | 5 - 8 | LIVE | 3 SAW | 7.8 | 33.0 | 38 | 15.3 | 7.1 | 0.5 |
| RC | 15 - 19 | LIVE | 3 SAW | 16.2 | 36.0 | 205 | 25.0 | 27.5 | 2.8 |

| Sp | Bin | Status | Grade | Dia | Len | BF Net | Defect % | Tons | MBF Net |
|----|-------|--------|---------|-----|------|--------|----------|------|---------|
| WH | < 5 | LIVE | UTILITY | 3.4 | 19.0 | 32 | 0.0 | 8.0 | 0.4 |
| WH | 5 - 8 | LIVE | 4 SAW | 5.2 | 25.0 | 150 | 0.0 | 19.3 | 2.0 |

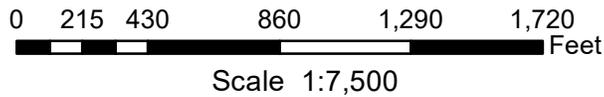
Unit Log Sort x Diameter Bin Summary: POWERLINE ALDER U1

| Sp | Bin | Status | Sort | Dia | Len | BF Net | Defect % | Tons | MBF Net |
|----|---------|--------|----------|------|------|--------|----------|---------|---------|
| DF | 5 - 8 | LIVE | Domestic | 5.0 | 22.0 | 35 | 0.0 | 3.9 | 0.5 |
| DF | 5 - 8 | LIVE | Pulp | 5.0 | 37.0 | 122 | 0.0 | 17.8 | 1.7 |
| DF | 9 - 11 | LIVE | Domestic | 9.2 | 40.0 | 150 | 10.3 | 21.3 | 2.0 |
| MA | 5 - 8 | LIVE | Pulp | 5.2 | 9.0 | 14 | 0.0 | 1.0 | 0.2 |
| MA | 5 - 8 | LIVE | Domestic | 5.9 | 23.0 | 304 | 10.8 | 46.2 | 4.1 |
| MA | 9 - 11 | LIVE | Domestic | 10.1 | 40.0 | 178 | 25.3 | 39.4 | 2.4 |
| MA | 12 - 14 | LIVE | Domestic | 13.5 | 40.0 | 152 | 9.9 | 21.7 | 2.1 |
| RA | < 5 | LIVE | Pulp | 2.2 | 15.0 | 678 | 0.0 | 233.0 | 9.2 |
| RA | 5 - 8 | LIVE | Domestic | 5.9 | 33.0 | 14,374 | 6.1 | 1,967.9 | 195.5 |
| RA | 9 - 11 | LIVE | Domestic | 10.1 | 37.0 | 1,116 | 9.5 | 157.0 | 15.2 |
| RA | 12 - 14 | LIVE | Domestic | 12.8 | 40.0 | 381 | 10.2 | 58.3 | 5.2 |
| RC | 5 - 8 | LIVE | Cull | 5.3 | 6.0 | 0 | 100.0 | 0.0 | 0.0 |
| RC | 5 - 8 | LIVE | Domestic | 5.3 | 19.0 | 203 | 3.3 | 18.1 | 2.8 |
| RC | 15 - 19 | LIVE | Domestic | 16.2 | 36.0 | 205 | 25.0 | 27.5 | 2.8 |
| WH | < 5 | LIVE | Pulp | 3.4 | 19.0 | 32 | 0.0 | 8.0 | 0.4 |
| WH | 5 - 8 | LIVE | Domestic | 5.2 | 25.0 | 150 | 0.0 | 19.3 | 2.0 |



Cruiser Sample Point Locations

| | | |
|-------------|--------------------|-----------------------------|
| LAYER NAME: | powerline_alder_u1 | Township: T31R08W, T30R08W |
| POLY ID: | 1 | Total Sample Points: 14 |
| Acres: | acres | Spacing Between Points: 225 |
| | | Point Rotation Degrees: 0 |



Legend

- Sample Points
- Unit
- Public Land Survey Sections
- Contours 40-foot



| For DNR Region Office Use Only | |
|--------------------------------|--|
| FPA/N #: | |
| Region: | |
| Received Date: | |

Forest Practices Application/Notification Western Washington

Project Name: _____

PLEASE USE THE INSTRUCTIONS TO COMPLETE THIS APPLICATION.

1. Landowner, Timber Owner and Operator

| | | |
|-------------------------|--|--|
| Legal Name of LANDOWNER | Legal Name of TIMBER OWNER <input type="checkbox"/> Same as Landowner | Legal Name of OPERATOR <input type="checkbox"/> Same as Landowner |
| Mailing Address: | Mailing Address: | Mailing Address: |
| City, State, Zip: | City, State, Zip: | City, State, Zip: |
| Phone: | Phone: | Phone: |
| Email: | Email: | Email: |

2. Contact Person

| | |
|-----------------|--------|
| Contact Person: | Phone: |
| | Email: |

3. Are you converting any portion of the land to non-forestry use within 3 years of harvest?

No Yes If yes, include your SEPA checklist and SEPA determination (if applicable) and county clearing and grading permit (if applicable).

4. If you are harvesting timber, enter the Forest Tax Number of the Timber Owner:

Contact the Department of Revenue at 1-800-548-8829 for tax reporting information or to obtain a number.

a. Are you eligible for EARR Tax Credit? No Yes

5. Are you a small forest landowner per RCW 76.09.450? See instructions

- No Yes If yes, **Check all that apply.** If no, skip to Question 6.
- My entire proposed harvest area is on a single contiguous ownership consisting of one or more parcels.
 - My proposed forest practices activities are within an area covered by an approved Forest Stewardship Plan or Forest Management Plan developed in cooperation with DNR.
 - I received technical assistance from a DNR small forest landowner Stewardship and Technical Assistance Forester in preparing this FPA/N.
 - I have participated in a Washington State University Extension Service and/or DNR-sponsored Forest Stewardship Coached Planning course.
 - I have attended a Washington State University Extension Service and/or DNR-sponsored Family Forest Owner Field Day.

6. Are you substituting prescriptions from an approved state or federal conservation agreement or Watershed Analysis?

- No Yes Write 'HCP' or 'Using Prescriptions' in tables that apply. Attach or reference prescriptions and/or crosswalks for approved state or federal conservation agreements or Watershed Analysis on file at the Region office.

7. What is the legal description of your forest practices?

| Section | Township | Range | E/W | Tax Parcel Number | County |
|---------|----------|-------|-----|-------------------|--------|
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8. Have you reviewed this forest practices activity area to determine whether it may involve historic sites and/or Native American cultural resources? Read the instructions before answering this question.

- No Yes If you made any contacts, please provide information in Question 28.

9. Do you have a DNR approved Road Maintenance and Abandonment Plan (RMAP)?

- No Is a Small Forest Landowner RMAP Checklist required (see instructions)? No Yes
- Yes Enter your RMAP number: _____
- Is this FPA/N for work that is included in this approved RMAP? No Yes

10. Are there potentially unstable slopes or landforms in or around the area of your forest practices activity?

- No Yes If yes, attach Appendix D. Slope Stability Informational Form and map of areas reviewed for and locations of unstable slopes and landforms found. If applicable, attach a geotechnical letter, memo, or report, Watershed Analysis prescriptions, and/or a SEPA Environmental Checklist.

11. Is this Forest Practices Application/Notification (answer every question):

- a. No Yes A request for a multi-year permit? If yes, length requested: 4 years or 5 years. Not everyone qualifies for a multi-year permit. See instructions for details.
- b. No Yes An Alternate Plan? If yes, include a template or detailed plan. See instructions for details.
- c. No Yes For a funded Forest Family Fish Passage Program project?
- d. No Yes Within an urban growth area? If yes, see instructions for additional required documents.
- e. No Yes Within a public park? If yes, include SEPA Environmental Checklist or SEPA Determination, except for harvest/salvage of less than 5,000 board feet within a developed public park. Park name: _____
- f. No Yes Within 500 feet of a public park? Park name: _____
- g. No Yes In an approved Conversion Option Harvest Plan (COHP) from the local government? If yes, include a copy. This only applies to proposals within urban growth areas.
- h. No Yes Within 200 feet of the Ordinary High Water Mark (OHWM) or floodway of Type S Water? If yes, check with the county or city to determine whether a substantial development permit is required under the local shorelines master plan.
- i. No Yes Within 50 miles of saltwater AND you own more than 500 acres of forest land in Washington State? If yes, include Marbled Murrelet Form or attach/reference HCP prescriptions.
- j. No Yes In or directly adjacent to a potential Channel Migration Zone (CMZ)? If yes, include CMZ Assessment Form. Attach/reference applicable HCP and/or Watershed Analysis prescriptions.

You are required to verify all waters within 200 feet of your proposed forest practices activities prior to submitting a Forest Practices Application / Notification. Use the Water Type Classification Worksheet and/or a Water Type Modification form to explain how you verified water types. See Water Typing Requirements in the instructions.

******* If not working in or over typed Waters, skip to Question 16 *******

Prior to answering Questions 12-15 in this section please refer to the Forest Practices Application Instructions and Forest Practices Board Manual Section 5.

12. Are you proposing any of the following projects NOT permitted by current HPAs from WDFW?

- a. No Yes Installing, replacing, or repairing a culvert at or below the bankfull width of Type S or F Water(s) that exceeds a five percent gradient?
- b. No Yes Constructing, replacing, or repairing a bridge at or below the bankfull width of unconfined streams in Type S or F Water(s)?
- c. No Yes Placing fill material within the 100-year flood level of unconfined streams in Type S or F Water(s)?

13. Have you consulted with DNR and/or WDFW about the proposed hydraulic project(s) in or over Type S or F Water? No Yes

14. If installing, replacing, removing, or maintaining structures in or over any typed Water, complete the table below. Provide crossing locations and identifiers on your Activity Map. Provide plan details in Question 28 or attach plan to the FPA/N. Type S and F Waters require detailed plan information. Complex hydraulic projects in Type N Waters may also be required per WAC 222-24-042(2). See instructions for detailed plan requirements.

| Crossing Identifier (letter, number) | Water Type (S, F, Np, Ns) | *Existing HPA Number (if applicable) | HPA Expiration Date (if applicable) | Planned Activity (install, replace, remove, temporary, structure maintenance) | Structure (bridge, ford/equipment crossing** punchon/fill, arch, pipe arch, round culvert, other) | Proposed Size (width x length) | Culvert Design Method (no-slope, stream-sim, hydraulic, other) (F and S only) | Channel Bed Width (ft) (F and S only) | Stream Gradient (%) (F and S only) | Is this an RMAP Project? |
|---|------------------------------|--|--|--|--|---|---|---|---------------------------------------|-----------------------------|
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*Existing HPAs issued by WDFW will be complied and enforced by WDFW until expiration. Plan details are not required for hydraulic projects permitted with an existing HPA (see instructions).

**Fords and/or equipment crossings on Type S and F Waters may result in an unauthorized incidental take of certain threatened or endangered fish species. For more information, see 'Background for the State's Incidental Take Permits for certain threatened and endangered fish species' following Question 22 of the FPA/N Instructions.

15. If conducting any of the following activities in or over typed Water(s), complete the table below. Some activities will require identifiers on the Activity Map and/or more information in Question 28. See instructions.

| *Activity | Type S Water | Type F Water | Type Np Water | Type Ns Water |
|---------------------------------|--------------------------------|--------------|---------------|---------------|
| Equipment Crossing** | PROVIDE DETAILS IN QUESTION 14 | | | |
| Suspending Cables | | | | |
| Cable Yarding | | | | |
| LWD Placement/Removal | | | | |
| Beaver Dam Removal | | | | |
| Felling and Bucking | | | | |
| Other (describe in Question 28) | | | | |

** Fords and/or equipment crossings on Type S and F Waters must be identified in Question 14.

16. If constructing or abandoning forest roads, complete the table below. Show the road locations and identifiers on the Activity Map. Include abandonment plans for all temporary roads and abandonment projects.

| Road Identifier (name, number) | Road Construction | | Road Abandonment | |
|-----------------------------------|-------------------|----------------------------|------------------|---------------------|
| | Length (feet) | Steepest Side-slope (%) | Length (feet) | Abandonment Date |
| | | | | |
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17. If depositing spoils and/or expanding or developing a rock pit for forestry use, complete the table below. Show locations and identifiers on the Activity Map.

| Spoil Area Identifier (letter, number) | Amount of Spoils Deposited (cubic yards) | Rock Pit Identifier (name, number or letter) | Acres of New Rock Pit Developed | Acres of Existing Rock Pit Expanded |
|---|---|---|---------------------------------|-------------------------------------|
| | | | | |
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18. If operating within 200 feet of a wetland that is not associated with Type S or F Water, complete the table below. Wetlands associated with Type S or F water should be listed in Question 25. Show the boundaries of each wetland, along with its identifier, and Wetland Management Zones on the Activity Map. See instructions for information.

| Wetland Identifier (letter, number) | Wetland Type (A, B, Forested) | Planned Activities in Wetland | Planned Activities in Maximum Width WMZ | Total Wetland Acres | How many Acres will be drained? | How many Acres will be filled? |
|--|----------------------------------|-------------------------------|---|---------------------|---------------------------------|--------------------------------|
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******* If not harvesting or salvaging timber, skip to Question 27 *******

19. If harvesting or salvaging timber, complete the table below. Show all harvest areas and unit numbers on the Activity Map. For even-aged harvest units, also show surrounding stand information on the Activity Map.

| Unit Number | Harvest Type (Even-aged, Uneven-aged, Salvage, Right-of-Way) | Biomass Harvest (Y or N) | Harvest Method (rubber tired skidder, tracked skidder, dozer, shovel, full suspension cable, leading end suspension cable, helicopter, cable assist/tethered logging, animal, chipper, forwarder, slash bundler) | Acres to be Harvested | Volume to be Harvested (mbf) | Biomass Volume to be Harvested (tonnage) | Volume to be Harvested (%) | Steepest Slope in Harvest Unit (%) |
|-------------|---|-----------------------------|---|-----------------------|------------------------------|--|----------------------------|------------------------------------|
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20. Reforestation. Check all that apply:

- Planting. Tree Species: _____
- Natural. Include a Natural Regeneration Plan
- Not required because of one or more of the following:
 - I am converting some or all of this land to non-forest land in the next 3 years or lands are exempted under WAC 222-34-050.
 - Individual dead, dying, down, or wind-thrown trees will be salvaged.
 - Trees are removed under a thinning program reasonably expected to maximize the long-term productivity of commercial timber.
 - I am leaving at least 100 vigorous, undamaged, and well-distributed saplings or merchantable trees per acre.
 - An average of 190 tree seedlings per acre are established on the harvest area and my harvest will not damage them.
 - Road right-of-way or rock pit development harvest only.

**** Do you own MORE than 80 acres of forest land in Washington? If yes, skip to Question 25 ****

21. Are you using the exempt 20-acre parcel riparian management zone (RMZ) rule (WAC 222-30-023) on Type S, F, or Np Waters?

- No Skip to Question 25.
- Yes Continue to Question 22. See instructions for qualifications and information.

22. Choose the answer below that best fits your situation. Show all RMZs on the Activity Map.

- a. ALL of the following apply to me and my land: (If no, answer b.)
 - Between June 5, 2006 and today's date I have always owned less than 80 acres of forest land in Washington.
 - Between June 5, 2006 and today's date this parcel has always been 20 acres or less of contiguous ownership. See RCW 76.09.020 for definition of 'contiguous'.
 - Between June 5, 2006 and today's date this parcel has always been owned by me or someone else that has owned less than 80 acres of forest land in Washington.
- b. ONE OR MORE of the following apply to me and/or my land (check all that apply):
If any of the statements below apply AND you use the exempt 20-acre parcel RMZ rule, you are NOT authorized under the State's Incidental Take Permits (see explanation in FPA instructions under Question 22).
 - Between June 5, 2006 and today's date I have owned more than 80 acres of forest land in Washington.
 - Between June 5, 2006 and today's date this parcel has been a part of more than 20 acres of contiguous ownership. See RCW 76.09.020 for definition of 'contiguous'.
 - Between June 5, 2006 and today's date this parcel has been owned by someone that has owned

23. If harvesting within 115 feet of a Type S or F Water on an exempt 20-acre parcel, complete the table below. Show RMZs and stream segment identifiers on the Activity Map. If you are harvesting within 75 feet or within the maximum RMZ (whichever is less), stream shade must be assessed and met following harvest. Describe in Question 28 how stream shade was determined to be met, using the 'Appendix F. Stream Shade Assessment Worksheet' if necessary.

| Stream Segment Identifier (letter) | Water Type (S, F) | Segment Length (feet) | Bankfull Width (feet) | RMZ Maximum Width (feet) | Are you harvesting within the maximum RMZ? (Y or N) |
|---------------------------------------|----------------------|--------------------------|--------------------------|-----------------------------|--|
| | | | | | |
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24. Are you harvesting within 29 feet of a Type Np Water on an exempt 20-acre parcel?

- No Skip to Question 27.
- Yes See instructions and describe leave tree strategy in Question 28. Then skip to Question 27.

25. If harvesting within 200 feet of any Type S or F Water or periodically inundated areas of their associated wetlands, complete the table below. Include Desired Future Condition (DFC) for all inner zone harvests unless you have an HCP prescription. Show RMZs, CMZs, and stream segment identifiers on the Activity Map. If you are harvesting within 75 feet or within the maximum RMZ, whichever is less, stream shade must be assessed and met following harvest. Describe in Question 28 how stream shade was determined to be met or use the 'Appendix F. Stream Shade Assessment Worksheet' if necessary.

| Stream Segment Identifier (letter) | Water Type (S, F) | Site Class (I - V) | Stream Width (feet) | Is there a CMZ? (Y or N) | RMZ Harvest Code(s) (see instructions) | DFC Run Number | Total width of RMZ (feet) |
|---------------------------------------|----------------------|-----------------------|------------------------|-----------------------------|---|----------------|------------------------------|
| | | | | | | | |
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26. If harvesting within 50 feet of Type Np Water, complete the table(s) below. Show RMZs and stream segment identifiers on the Activity Map.

| Stream Segment Identifier (letter) | Total Stream Length in Harvest Unit (feet) | Length of No-Harvest, 50-foot Buffers in Harvest Unit (feet) |
|---------------------------------------|---|---|
| | | |
| | | |
| | | |
| | | |

| Stream Segment Identifier (letter) | Total Stream Length in Harvest Unit (feet) | Length of No-Harvest, 50-foot Buffers in Harvest Unit (feet) |
|---------------------------------------|---|---|
| | | |
| | | |
| | | |
| | | |

27. How are the following currently marked on the ground? (*Flagging color, paint color, road, fence, etc.*)

Harvest/Salvage Boundaries: _____

Clumped Wildlife Reserve Trees/Green Recruitment Trees: _____

Right-of-Way Limits/Road Centerlines: _____

Stream Crossing Work: _____

Riparian Management Zone Boundaries and Leave/Take Trees: _____

Channel Migration Zone: _____

Wetland Management Zone Boundaries and Leave/Take Trees: _____

28. Additional Information (attach additional pages if necessary): For hydraulic projects in or over Type S, F, or complex N Water(s) see instructions for required plan information. If applicable, include mitigation measures from a geotechnical memo, letter, or report.

29. We acknowledge the following:

- The information on this application/notification is true.
- We understand this proposed forest practice is subject to:
 - The Forest Practices Act and Rules AND
 - All other federal, state or local regulations.
- Compliance with the Forest Practices Act and Rules does not ensure compliance with the Endangered Species Act or other federal, state or local laws.
- If we said that we would not convert any portion of the land to non-forestry use, the county or city may deny development permits on this parcel for the next 6 years.
- The following may result in an unauthorized incidental take of certain endangered or threatened fish species:
 - Conversion of land to non-forestry use.
 - Harvesting within the maximum RMZ on a 20-acre exempt parcel that was acquired after June 5, 2006.
 - Equipment Crossings/Fords in or over Type S and F Waters.
- Inadvertent Discovery – Chapters 27.44, 27.53, 68.50 and 68.60 RCW
 - If you find or suspect you have found an archaeological object or Native American cairn, grave, or glyptic record, immediately cease disturbance activity, protect the area and promptly contact the Department of Archaeology and Historic Preservation at 360 586-3077.
 - If you find or suspect you have found human skeletal remains, immediately cease disturbance activity, protect the area, and contact the County Coroner or Medical Examiner and local law enforcement as soon as possible. Failure to report human remains is a misdemeanor.

The landowner understands that by signing and submitting this FPA, he/she is authorizing the Department of Natural Resources to enter the property in order to review the proposal, inspect harvest operations, and monitor compliance for up to three years after its expiration date. RCW 76.09.150

| Signature of Legal LANDOWNER | Signature of Legal TIMBER OWNER* <i>(If different than landowner)</i> | Signature of Legal OPERATOR <i>(If different than landowner)</i> |
|-------------------------------------|---|--|
| Print Name: | Print Name: | Print Name: |
| Date: | Date: | Date: |

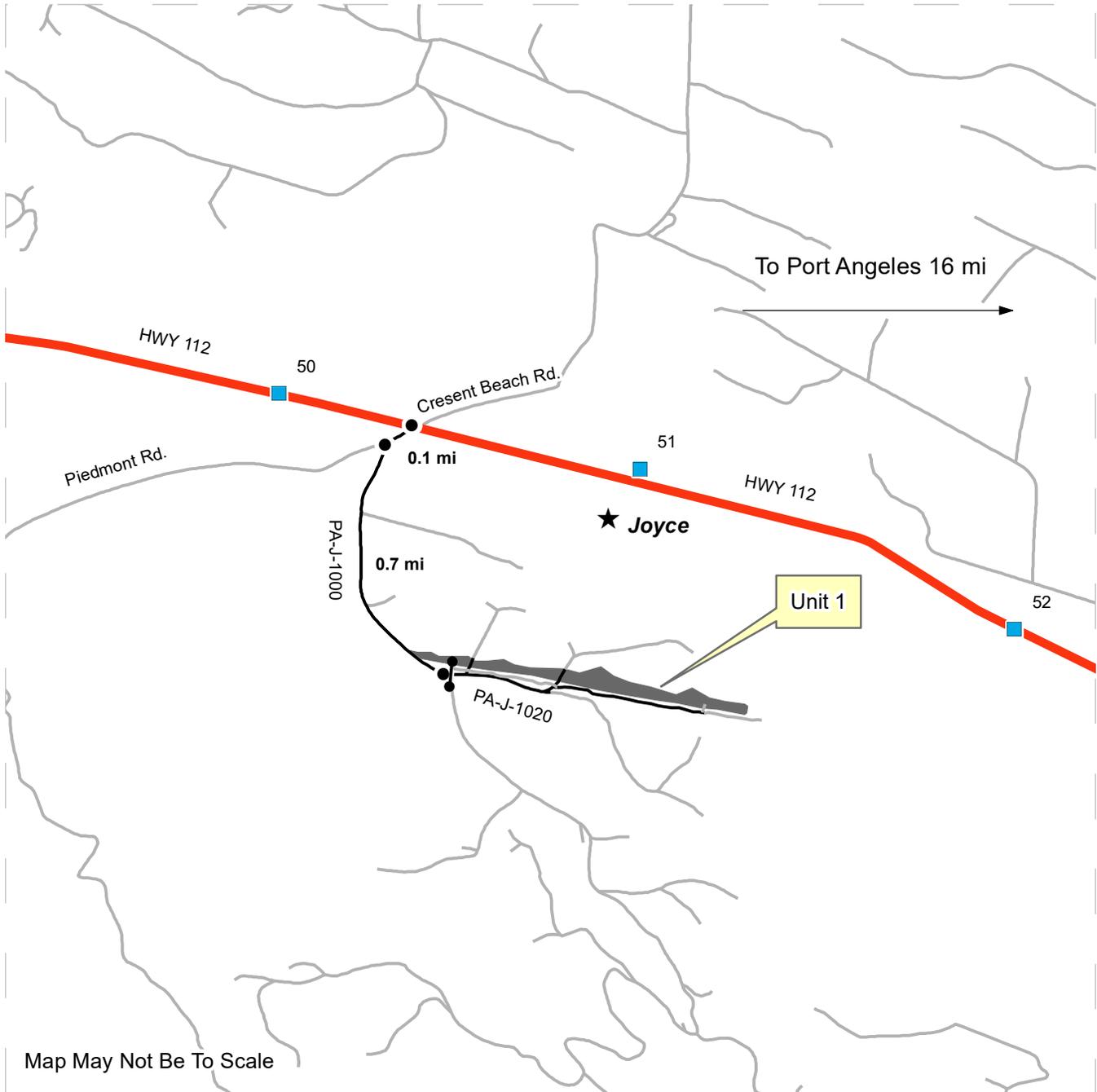
** NOTE: If you are a "Perpetual Timber Rights Owner," and are submitting this without the Landowner's Signature, provide written evidence the landowner has been notified.*

Please make a copy of this FPA/N for your records. If this FPA/N contains a hydraulic project requiring WDFW concurrence review, it will not be available online for public review until after the WDFW concurrence review period.

DRIVING MAP

SALE NAME: POWERLINE ALDER
AGREEMENT#: 30-100692
TOWNSHIP(S): T30R08W, T31R08W
TRUST(S): State Forest Transfer(1)

REGION: Olympic Region
COUNTY(S): CLALLAM
ELEVATION RGE: 520-560



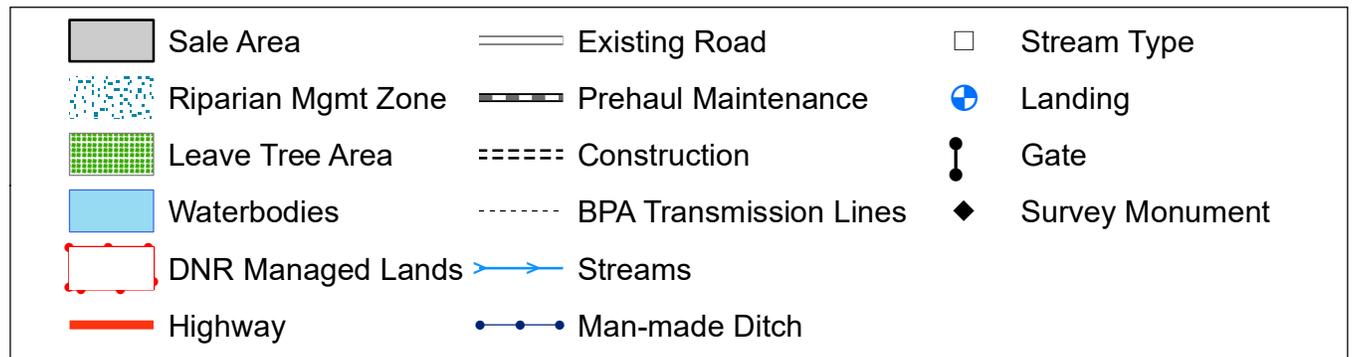
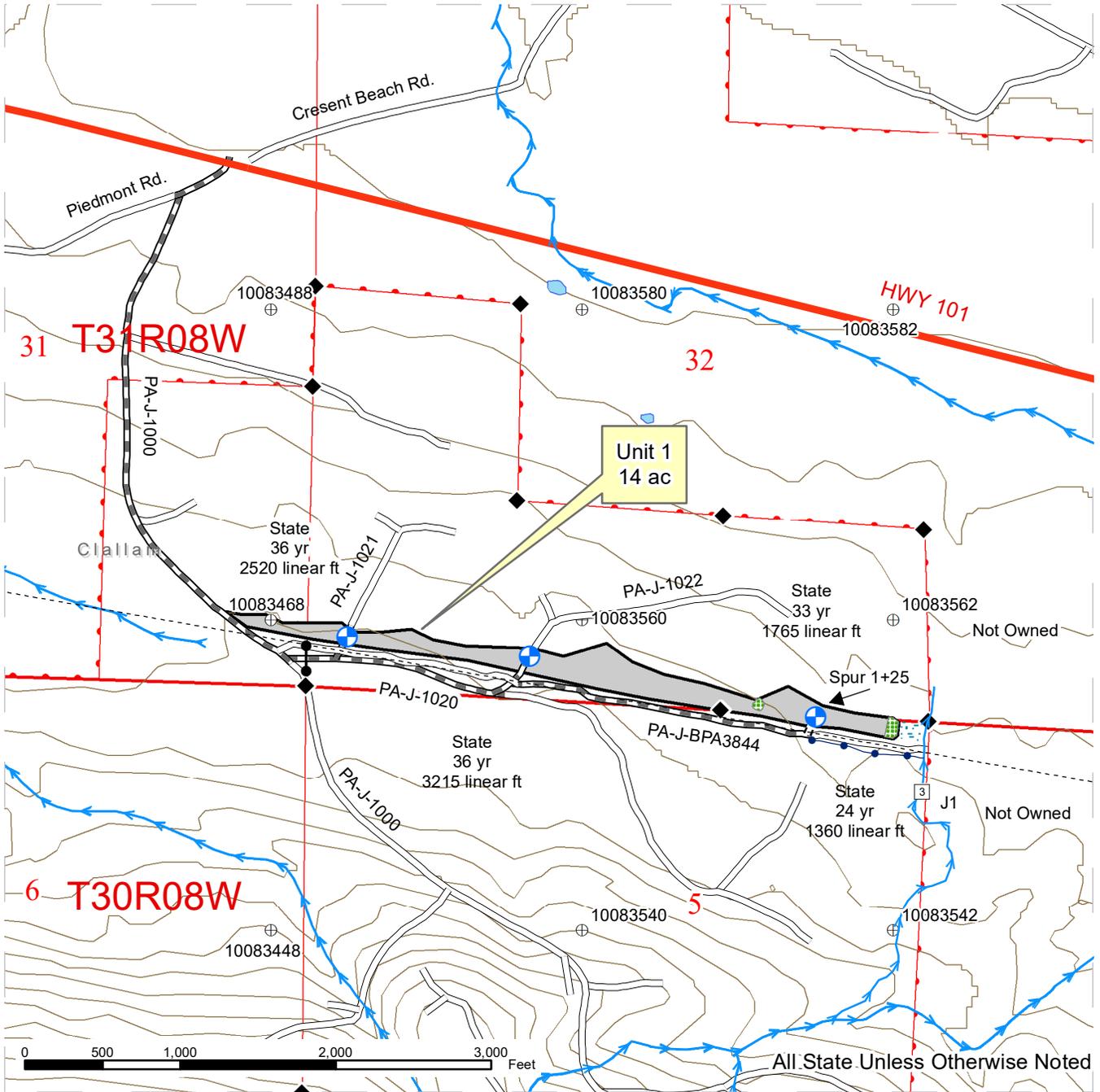
| | |
|---|--|
| <ul style="list-style-type: none"> Timber Sale Unit Highway Other Road Haul Route Milepost Markers Distance Indicator | <p><u>DRIVING DIRECTIONS:</u></p> <p>Unit 1 From milepost 51 on Hwy 112 travel 0.5 miles west and turn left onto Piedmont Rd. Follow Piedmont Rd southwest for 0.1 miles to the PA-J-1000 road on the left. Turn left onto the PA-J-1000 and travel south for 0.7 miles. Turn left onto the PA-J-1020 road and drive through the gate. Unit 1 is on your left.</p> |
|---|--|



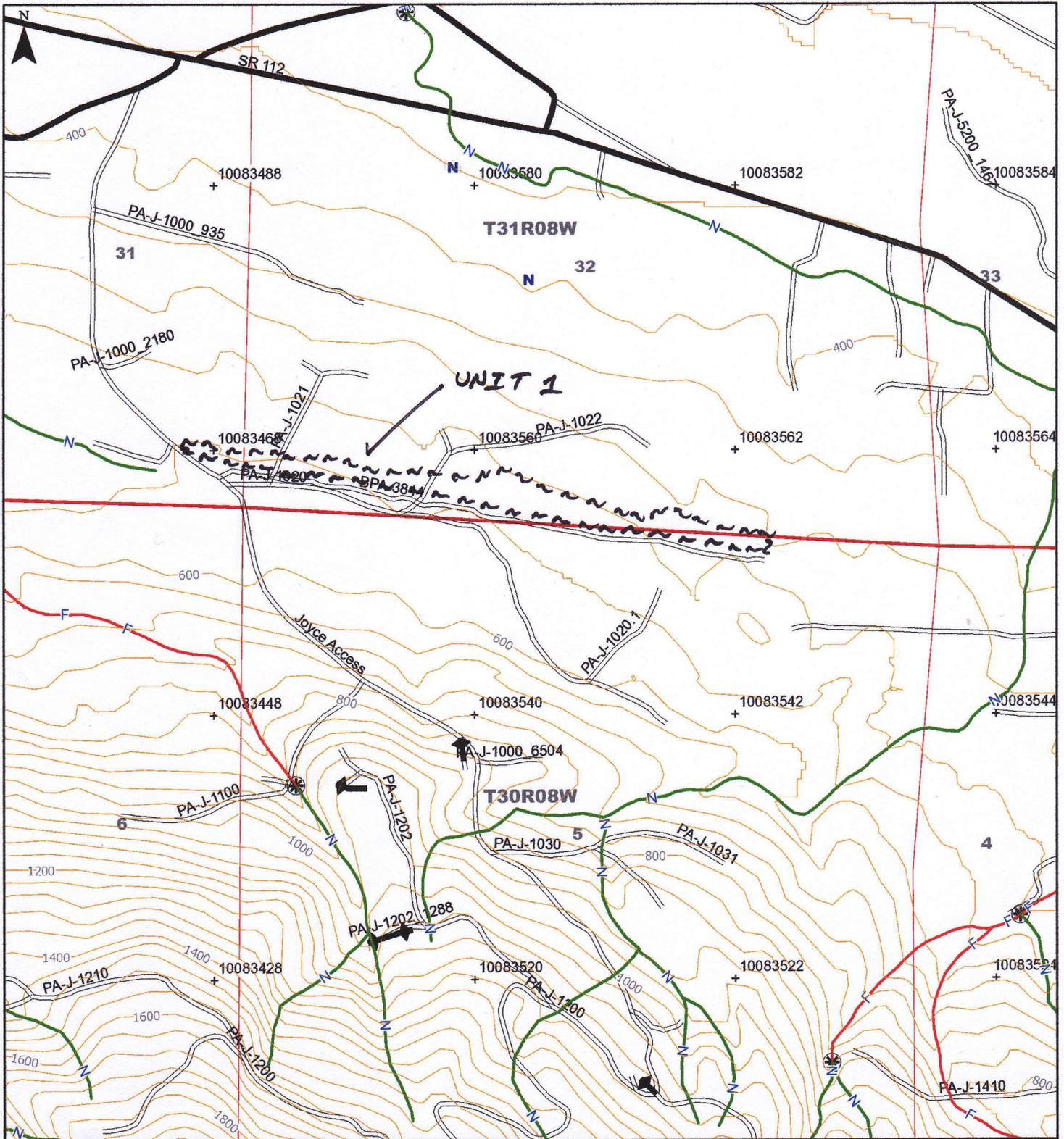
FOREST PRACTICES ACTIVITY MAP

SALE NAME: POWERLINE ALDER
 APPLICATION #: TBD by FP Staff

COUNTY(S): Clallam
 TOWNSHIP(S): T30R8W, T31R8W



Forest Practices Activity Map - Application # _____



| Map Symbols | Additional Information | Legal Description |
|--|--|---|
| <ul style="list-style-type: none"> --- Harvest Boundary - - - Road Construction ~ Stream RMZ / WMZ Buffers X Rock Pit ⊕ Landing ▽ Waste Area 🌲 Clumped WRTS/GRTS 🏠 Existing Structure | <p>~ ~ ~ = <i>TIMBER SALE BOUNDARY</i></p> | <p>S05 T30.0N R08.0W, S04 T30.0N R08.0W S33 T31.0N R08.0W, S32 T31.0N R08.0W S06 T30.0N R08.0W, S31 T31.0N R08.0W</p> |



Extreme care was used during the compilation of this map to ensure its accuracy. However, due to changes in data and the need to rely on outside information, the Department of Natural Resources cannot accept responsibility for errors or omissions, and therefore, there are no warranties that accompany this material.

0 0.25 Miles

Date: 3/26/2020 Time: 2:14:40 PM

Forest Practices Application/Notification Addendum
State Trust Lands Habitat Conservation Plan (HCP) Addendum Implementation Checklist
for the Marbled Murrelet, 2019

OESF, Columbia, South Coast, South Puget, North Puget, and Straits HCP Planning Units

Refer to DNR's *State Trust Lands Final Habitat Conservation Plan Amendment for the Marbled Murrelet Long-term Conservation Strategy* (MM LTCS) (2019) and Memorandum for Phase One Implementation of the Marbled Murrelet Long-term Conservation Strategy (12/4/2019). The marbled murrelet GIS layer is available on the Quick Data Loader and State Uplands Viewing Tool and is titled "State Lands – Marbled Murrelet – HCP Policy."

1. Is the proposed Forest Practices activity within an occupied site?
 Yes, the proposal is inconsistent with the MM LTCS. Stop the proposed activity or document in Question #6 specifics of how the proposal follows MM LTCS guidance, as outlined in the Memorandum dated 12/04/2019, and provide approval from the Forest Resources Division.
 Not within an occupied site. Go to Question #2.
2. Is the proposed activity within an occupied site buffer?
 Yes, must follow MM LTCS guidance, as outlined in the Memorandum dated 12/04/2019, for the type for forest practices activity and document compliance with MM LTCS guidance in Question #6. If inconsistent with the MM LTCS, stop the proposed activity.
 Not within outer occupied site buffer. Go to Question #3.
3. Is the proposed activity within a special habitat area (SHA)?
 Yes, must follow MM LTCS guidance, as outlined in the Memorandum dated 12/04/2019, for the type for forest practices activity and document compliance with MM LTCS guidance in Question #6. If inconsistent with the MM LTCS, stop the proposed activity.
 Not within an SHA. Go to Question #4.
4. Is the proposed activity in marbled murrelet habitat within long-term forest cover?
 Yes, must follow MM LTCS guidance, as outlined in the Memorandum dated 12/04/2019, for the type of forest practices activity and document compliance with MM LTCS guidance in Question #6. If inconsistent with the MM LTCS, stop the proposed activity.
 Not within marbled murrelet habitat within long-term forest cover. Go to Question #5.
5. Is the proposed activity in marbled murrelet habitat that is identified for metering in the first decade of the implementation of the MM LTCS?
 Yes, must follow MM LTCS metering guidance, as outlined in the Memorandum dated 12/04/2019, for the type for forest practices activity. Document compliance with MM LTCS metering guidance in Question #6. If inconsistent with MM LTCS metering guidance, stop the proposed activity.
 Not within marbled murrelet habitat within long-term forest cover.
6. If directed to provide further documentation from any of the above questions, provide that information here. Additional information relevant to the proposal may also be added in this section. Also attach any documentation of consultations with the Forest Resources Division.

**Forest Practices Application/Notification Addendum DNR
State Trust Lands HCP Implementation Checklist for the
Northern Spotted Owl, 2017 (all HCP planning units & OESF)**

Refer to the DNR State Trust Lands HCP Implementation Agreement for the NSO, 2017.

1. Is the Forest Practice activity within a NRF Management Area?
 Yes, Go to #2.
 No, Go to #6.
2. Is the Forest Practice activity within a designated 500-acre Nest Patch?
 Yes, Harvesting within a nest patch is **inconsistent** with HCP without consultation, refer to Substitution Agreement, Section I.A. **Stop Proposed Activity** or document in Question #17 the specifics of proposal and Forest Resources Division concurrence if intending to proceed. Maintenance of existing roads is permitted, describe road maintenance activity in Question #17. If able to proceed, go to #3.
 No, Go to #3.
3. Is the Forest Practice activity within 0.7 miles of a spotted owl nest site (status 1 or 2)?
 Yes, Apply timing restrictions; refer to Substitution Agreement, Section I. Go to #4.
 No, Go to #4.
4. Is the SOMU where the Forest Practice activity is located above the target amount of 50% NRF habitat?
 Yes, Proceed with the activity, ensuring that habitat within the SOMU will not fall below the target amount of 50% and no more than 5% of sub-mature or better habitat within the SOMU is harvested within two years. Please describe in Question #17; if the activity will be harvesting habitat or non-habitat, whether it is an enhancement activity or even- age harvest and how many acres or percentage of NRF habitat will remain within the SOMU after harvest. Go to #16.
 No, Go to #5.
5. Is the Forest Practice activity within suitable sub-mature habitat or better or “next best”?
 Yes, Ensure NRF habitat remains after completion of the harvest activity or that the activity will not increase the length of time for the target amount to reach a suitable habitat condition. Please describe in Question #17, type of activity, how habitat will be maintained or next best stands enhanced and what the final stand condition will be. Go to #16.
 No, Ensure that target amount of habitat within the SOMU will not take longer to achieve after activity. Please describe in Question #17 how management activity will maintain and/or achieve the NRF target amount. Go to #16.
6. Is the Forest Practice activity within a Dispersal or DFC Management Area?
 Yes, Go to #7.
 No, Go to #10.
7. Is the Forest Practice activity within 0.7 miles of a spotted owl nest site (status 1 or 2)?
 Yes, Apply timing restrictions; refer to Substitution Agreement, Section I. Go to #8.
 No, Go to #8.
8. Is the SOMU where the Forest Practice activity is located, above the target amount of 50% dispersal habitat?
 Yes, Proceed with the activity, ensuring that habitat within the SOMU will not fall

below the target amount of 50%. Please describe in Question #17; if the activity will be harvesting habitat or non-habitat, whether it is an enhancement activity or even- age harvest and how many acres or percentage of dispersal habitat will remain within the SOMU after harvest. Go to #16.

No, Go to #9.

9. Is the Forest Practice activity within suitable dispersal habitat or better or “next best”?

Yes, Ensure dispersal habitat remains after completion of the harvest activity or that the activity will not increase the length of time for the target amount to reach a suitable habitat condition. Please describe in Question #17, type of activity, how habitat will be maintained or next best stands enhanced and what the final stand condition will be. Go to #16.

No, Ensure that target amount of habitat within the SOMU will not take longer to achieve after activity. Please describe in Question #17 how management activity will maintain and/or achieve the dispersal target amount. Go to #16.

10. Is the Forest Practice activity located within the OESF?

Yes, Go to #11.

No, Go to #16.

11. Is the Forest Practice Activity within Young Forest Habitat, Old Forest Habitat, or a Pathways Management Candidate Stand?

Yes, Go to #12.

No, Proceed with the activity, Please describe in Question #17; whether it is an enhancement activity or even-age harvest and how many acres. Describe percentage of suitable habitat will remain within the SOMU after harvest. Go to #16.

12. Is the Forest Practice activity in a SOMU in the maintenance and enhancement phase?

Yes, Activity can proceed if it ensures commitments to OESF Forest Land Plan as described within the Substitution Agreement, Section II and that habitat within the SOMU will not fall below the target amount. For Old Forest Habitat both the 20% Old Forest and 40% Young Forest and Better thresholds must be maintained. Active and Passive Pathways Management Candidate Stands are available if thresholds are maintained. Please describe in Question #17 how management activity will maintain habitat thresholds and how any candidate stands will be managed in accordance with the pathway prescription. Go to #16.

No, Go to # 13.

13. Is the Forest Practice activity in Old Forest Habitat in a SOMU that is in the Restoration Phase?

Yes, No harvesting of Old Forest Habitat is allowed during the Restoration Phase.

No, Go to #14.

14. Is the Forest Practice activity a regeneration harvest of Young Forest Habitat in a SOMU that is in the Restoration Phase?

Yes, No regeneration harvest of Young Forest Habitat in a SOMU during the Restoration Phase without consultation with the HCP and Scientific Consultation Section. Describe in #17 how many acres or percentage of suitable habitat will remain within the SOMU after harvest. Document the reasons for harvest of young forest habitat and provide documentation of approval. Go to #16.

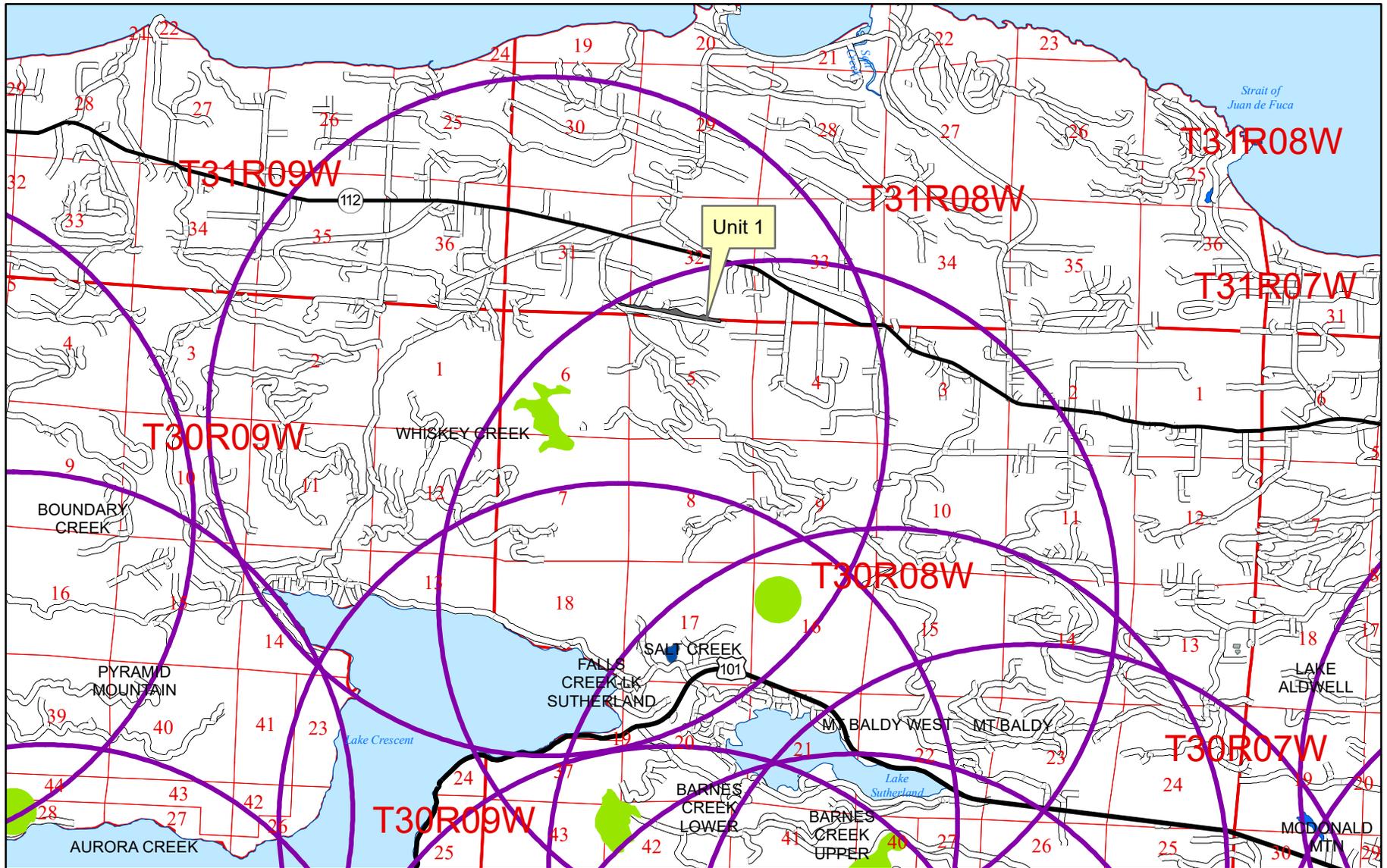
No, Go to #15.

15. Is the Forest Practice activity in an Active or Passive Pathways Management Candidate Stand in a SOMU that is in the Restoration Phase?
- Yes, No harvesting of Passive Pathways Management Candidate Stand is allowed during the Restoration Phase. Active Pathways Management Candidate Stands can only have thinning activities. Please describe in Question # 17 how management activity will maintain habitat thresholds or how thinning activities will enhance habitat. Describe in #17 how many acres or percentage of suitable habitat will remain within the SOMU after harvest.
- No, Proceed with the activity, if commitments to the OESF Forest Land Plan as described within the Substitution Agreement and the SOMU are maintained and habitat does not fall below the minimum threshold. Please describe in Question # 17 how management activity will maintain habitat thresholds or how thinning activities will enhance habitat. Describe in #17 how many acres or percentage of suitable habitat will remain within the SOMU after harvest. Go to #16.
16. Is the Forest Practice activity located within a Status 1 or 2 spotted owl management circle based on the WDFW database?
- Yes, Apply harvest timing restrictions to activities within the best 70-acre core around the site center; refer to Substitution Agreement, Section III. Include location of best 70-acre core on Forest Practices Map. Go to #17.
- No, Go to #17.
17. Provide any additional information or details requested from previous questions on the following lines. If no additional information is required, simply state “not applicable” below. Otherwise, include the SOMU name(s) when necessary if activity is within NRF or dispersal management areas or OESF and how habitat will be maintained or enhanced, etc. If varying from standard HCP guidance, attach concurrence/variance approval from Land Management Division and/or Federal Services and discuss below.

End checklist.

The Forest Practice activity is located within the Whiskey Creek (Status 1) and Salt Creek (Status 1) owl management circles. No activities will occur within the best 70-acre core around the site center.

NSO Map Powerline Alder



0 2,750 5,500 11,000 16,500 22,000 Feet



1 inch = 1 miles

- Olympic Status 1 and 2 Owl Circles
- Sale Area
- Olympic Best 70
- Interstates and US Highways
- State Routes
- Major Roads



**Forest Practices Application/Notification Addendum
DNR Proprietary HCP, WAC Replacement Summary for Aquatic Resources, 2008
Five West-side Planning Units, Excluding the OESF**

Please refer to the DNR Proprietary HCP Substitution Agreement for Aquatic Resources, 2008. Please check all HCP prescriptions and/or activities, which are relevant to this proposal and describe the management prescriptions and final stand composition at the end of this checklist.

NOTE: When assessing hydrologic maturity for each sub-basin inside the rain-on-snow zone, DNR staff will use the most updated data layer delineating Watershed Administrative Units as designated by Forest Practices.

- Assessing Hydrologic Maturity in the Rain-On-Snow (ROS) Zone (Refer to item A in the Agreement Memo). If the activity lies within the ROS zone and subbasin will be managed for ROS, fill out the following table. If within ROS zone, but subbasin will not be managed for ROS, describe why in additional information section below.

| 1. SUB-BASIN NAME | 2. TOTAL ROS ACRES (DNR) WITHIN SUB-BASIN | 3. HYDRO MATURE TARGET ACRES (2/3 of Column 2) | 4. CURRENT DNR SUB-BASIN ACRES IN HYDRO MATURE FOREST IN ROS | 5. ACRES OF HYDRO MATURE FOREST TO BE REMOVED | 6. SUPRPLUS (+) OR DEFICIT (-) ACRES AFTER ACTIVITY |
|-------------------|---|--|--|---|---|
| | | | | | |
| | | | | | |
| | | | | | |

- Wetlands Protection, road construction within wetlands or wetland buffers, requires mitigation. (Refer to item B in the Agreement Memo). If this activity will include road construction within a wetland or WMZ, describe the type of wetland, potential loss of wetland function and how and where the loss of function will be mitigated.
- Harvesting within Forested Wetlands. (Refer to items C & E in the Agreement Memo). Describe the remaining stand characteristics within the wetland and map any forested wetlands greater than 3 acres.
- Wetland Management Zones. (Refer to item D in the Agreement Memo). Describe the site index and WMZ width. If harvesting within the WMZ, describe the remaining stand characteristics within the WMZ.
- Riparian Management Zones for Type 1, 2 and 3 Waters (Refer to item F and Appendix 1 in the Agreement Memo). Describe the site index, RMZ width and if a wind buffer was applied. Describe if the RMZ begins from the outer edge of a CMZ or 100-year floodplain and how they were typed.
- Riparian Management Zones for Type 4 and 5 Waters (Refer to item G and Appendix 1 in the Agreement Memo). Describe any special protection for Type 5 waters.
- Harvesting or Salvaging within Type 1, 2, 3 and 4 Riparian Management Zones. (Refer to item F-J and Appendix 3 in the Agreement Memo). If harvesting, describe the general

HCP Riparian Forest Restoration Strategy management scenario under which the proposal's riparian stand will be managed. Describe stand treatment including removals, down wood and snag recruitment and type of activities. Describe post-harvest stand; how it meets the management parameters of the general management scenario, what species composition and diameter classes will remain, trees per acre, basal area, relative density. If salvaging, describe how you will be meeting the RDFC conditions, what you will retain and removals and other salvage/restoration conditions described within the Ecosystem Services Section approved site specific restoration plan (and/or attach plan).

Please provide any requested additional information below. If varying from standard HCP guidance, attach concurrence/variance approval from Land Management Division and/or Federal Services and discuss below (e.g. research).

One Type 3 water is located adjacent to the proposal area. No channel migration zone is present. The stream has been protected with a riparian management zone site index buffer width of 168 feet. No timber removals will occur, and no wind buffer was applied. The stream has been re-directed and widened by machinery in an effort to divert water away from neighboring private property landowners.

A stream associated wetland greater than 1 acre in size exists to the north of the proposed sale area boundary. The wetland is over 200' from the proposal area.

A man-made water diversion ditch has been constructed 100' on average to the south of the proposed timber sale area. No buffer protection has been applied to the ditch.

Olympic Region State Lands Water Type Worksheet

Stream/Segment ID: J1

Stream/Segment ID: _____

Stream/Segment ID: _____

1. Does the stream segment have a defined channel of 20 feet or greater in width between the ordinary high-water marks and have a gradient of less than 4 percent?

- Yes. Type 2 water, Stop.
- No. Continue.

- Yes. Type 2 water, Stop.
- No. Continue.

- Yes. Type 2 water, Stop.
- No. Continue.

2. Do you have a protocol survey? (See the Board Manual Section 13.) Or, does the stream have waiver characteristics? (See WAC 222-16-031(3) (b) (ii).)

No. Continue.

No. Continue.

No. Continue.

Yes:

Yes:

Yes:

Fish found. Type 3 water, Stop.

Fish found. Type 3 water, Stop.

Fish found. Type 3 water, Stop.

No fish. Continue to #6.

No fish. Continue to #6.

No fish. Continue to #6.

Yes, meets waiver criteria.

Yes, meets waiver criteria.

Yes, meets waiver criteria.

3. List the date stream observations were made for water typing:

Date observed: 3/04/2020

Date observed: _____

Date observed: _____

4. Were fish observed or are fish known to use the stream any time of the year?

Yes. Type 3 water, Stop.

Yes. Type 3 water, Stop.

Yes. Type 3 water, Stop.

No. Continue.

No. Continue.

No. Continue.

5. Does the stream segment have a defined channel of 2 feet or greater in width between the ordinary high-water marks and have a gradient of 16 percent or less?

Yes. Type 3 water, Stop.

Yes. Type 3 water, Stop.

Yes. Type 3 water, Stop.

No. Continue.

No. Continue.

No. Continue.

6. Does the stream segment have a defined channel of 2 feet or greater in width between the ordinary high-water marks and have a gradient greater than 16 percent and less than or equal to 20 percent; and have greater than 50 acres in contributing basin size?

Yes. Type 3 water, Stop.

Yes. Type 3 water, Stop.

Yes. Type 3 water, Stop.

No. Continue.

No. Continue.

No. Continue.

7. Does the stream have a channel width greater than 2 feet between the ordinary high-water marks?

Yes. Type 4 water, Stop.

Yes. Type 4 water, Stop.

Yes. Type 4 water, Stop.

No. Type 5 water, Stop.

No. Type 5 water, Stop.

No. Type 5 water, Stop.

Watershed Analysis Worksheet

(Use a separate worksheet for each Watershed Analysis Unit)

Watershed Administrative Unit Name:

Check all of the following that apply:

- I have reviewed the Watershed Analysis Prescription documents. My proposal is not located on or adjacent to any of the described features. Prescriptions do not effect my proposal.
- I have reviewed the descriptions and maps for all prescriptions.
My proposal is located on or adjacent to the following prescription areas:
 - Surface Erosion Prescriptions
 - Mass Wasting Prescriptions
 - Hydrology Prescriptions
 - Water Quality
 - Water Supply / Public Works
 - Riparian – applicable to landowners using the 20 acre exempt RMZ rule

Complete the following information for each prescription that affects your proposal or is adjacent to your proposal. Identify the resource sensitivity name and if you are implementing the prescriptions or not.

Attach required reports and additional information as necessary.

| Resource Sensitivity Name/No: | AA AAAAA Implementing Prescription: AAA Yes AA No |
|--------------------------------------|---|
| Describe harvest techniques proposed | |
| Describe road techniques proposed | |
| Describe other techniques proposed | |

| Resource Sensitivity Name/No: | AAAAA Implementing Prescription: AAA Yes AA No |
|--------------------------------------|---|
| Describe harvest techniques proposed | |
| Describe road techniques proposed | |
| Describe other techniques proposed | |

| Resource Sensitivity Name/No: | AAAAA Implementing Prescription: AAA Yes AA No |
|--------------------------------------|---|
| Describe harvest techniques proposed | |
| Describe road techniques proposed | |
| Describe other techniques proposed | |

Watershed Analysis Worksheet Instructions

This form must be submitted along with your Forest Practice Application/Notification (FPA) form if:

- You are harvesting timber (including salvage) or constructing roads within or adjacent to an approved Watershed Administrative Unit. OR
- If you answered yes to Question # 5 of the FPA because you are substituting Watershed Analysis Prescriptions.

A separate worksheet should be used for each Watershed Administrative Unit.

The following information must be included in the space provided or on additional pages.

- The name of the Watershed Administrative Unit where your proposal is located.
- Check all of the boxes that apply regarding your review of Watershed Analysis Prescriptions.
- Indicate each Resource Sensitivity Name (prescription name) that may affect your proposal.
- Indicate if you are implementing the prescription.
- Describe the specific harvest, road and other techniques you will use to implement the prescription.

Many prescriptions provide a landowner with a variety of different operational options. Sufficient detail needs to be included so that we can evaluate your proposal.

If your proposal is located on an area of resource sensitivity (prescription) AND you are choosing not to follow the prescription your FPA will be processed as a Class IV-Special and require a State Environmental Policy Act (SEPA) checklist.

STATE OF WASHINGTON
DEPARTMENT OF NATURAL RESOURCES

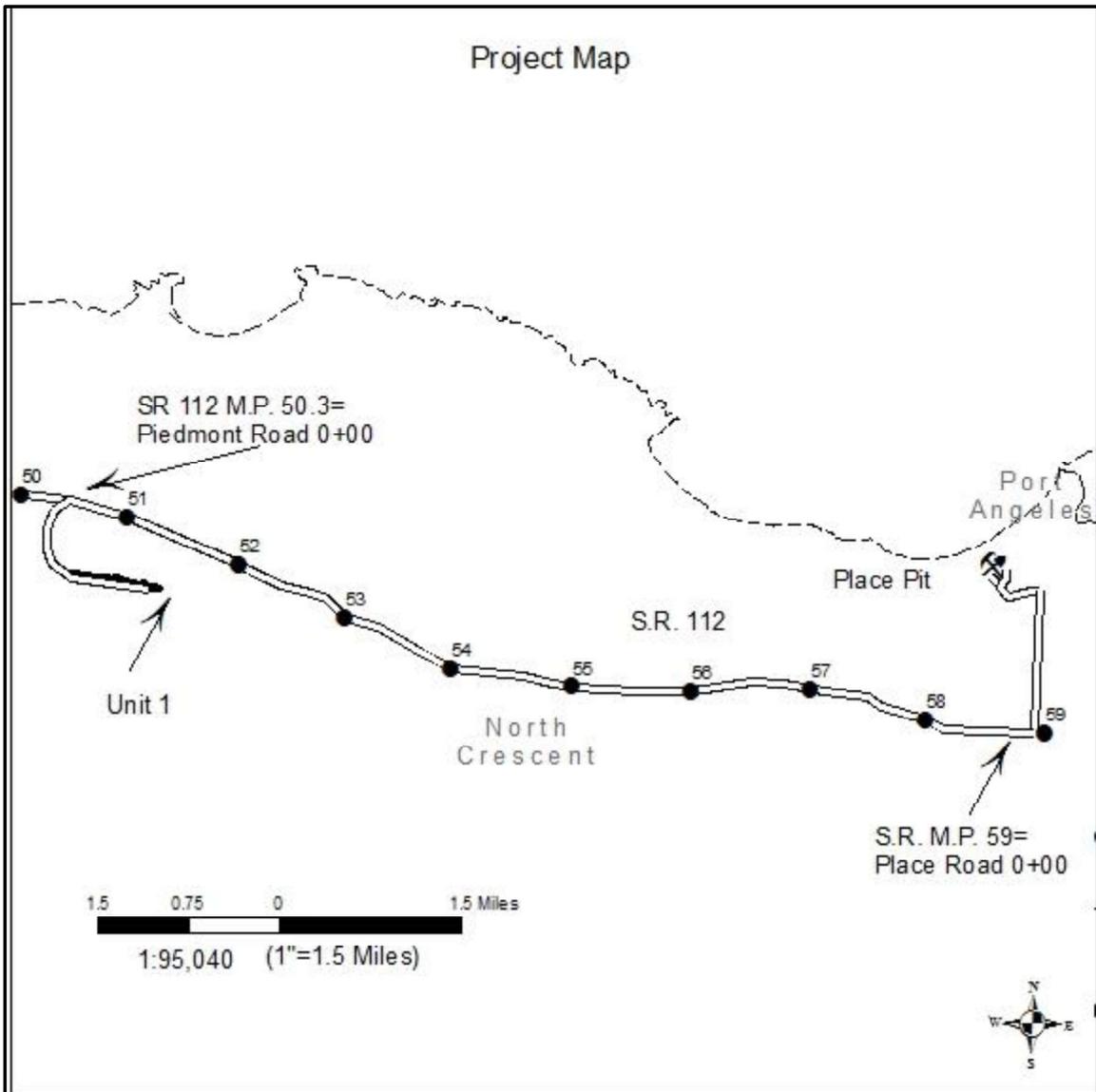
POWERLINE ALDER TIMBER SALE ROAD PLAN
CLALLAM COUNTY
STRAITS DISTRICT
OLYMPIC REGION

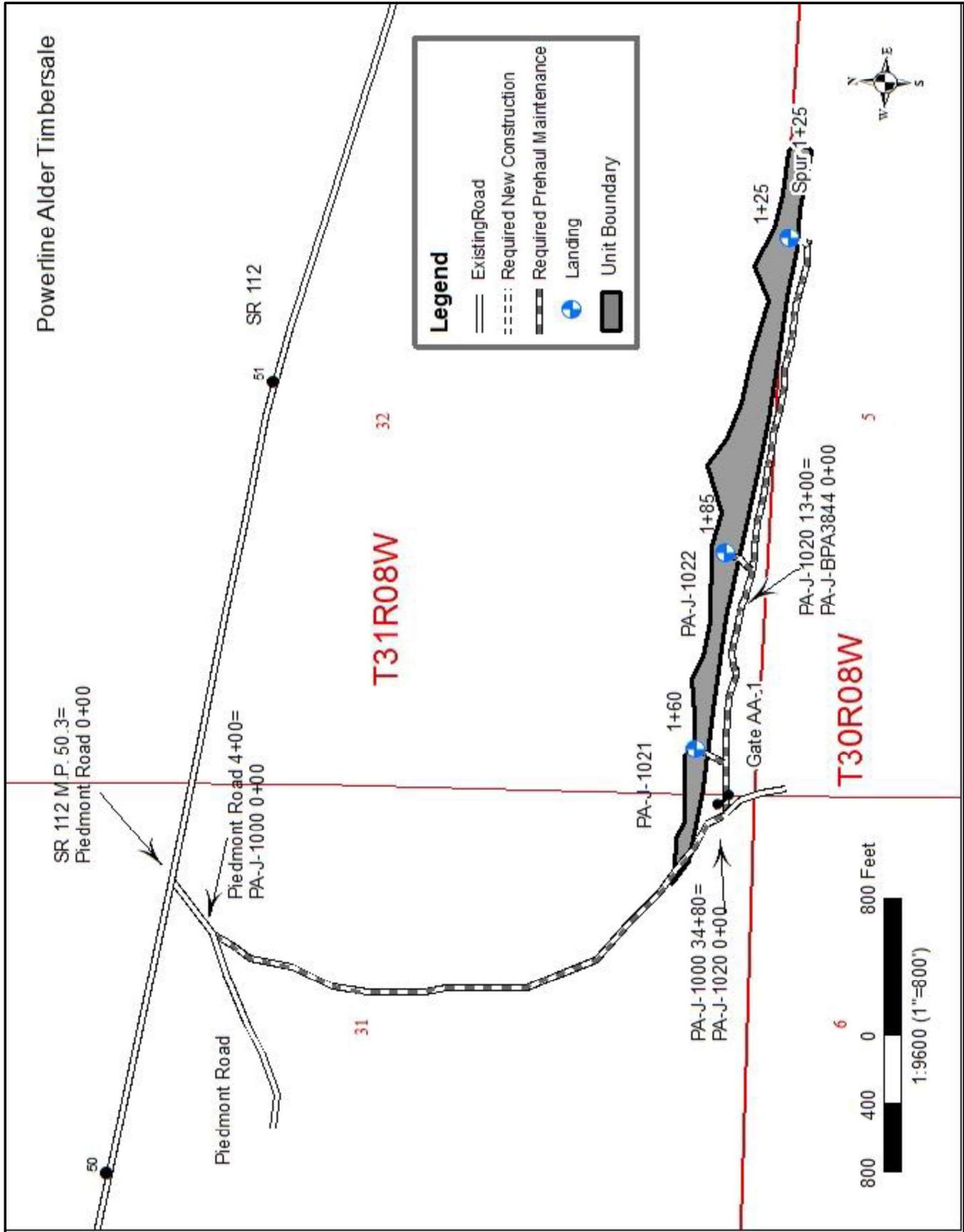
AGREEMENT NO.: 30-100692

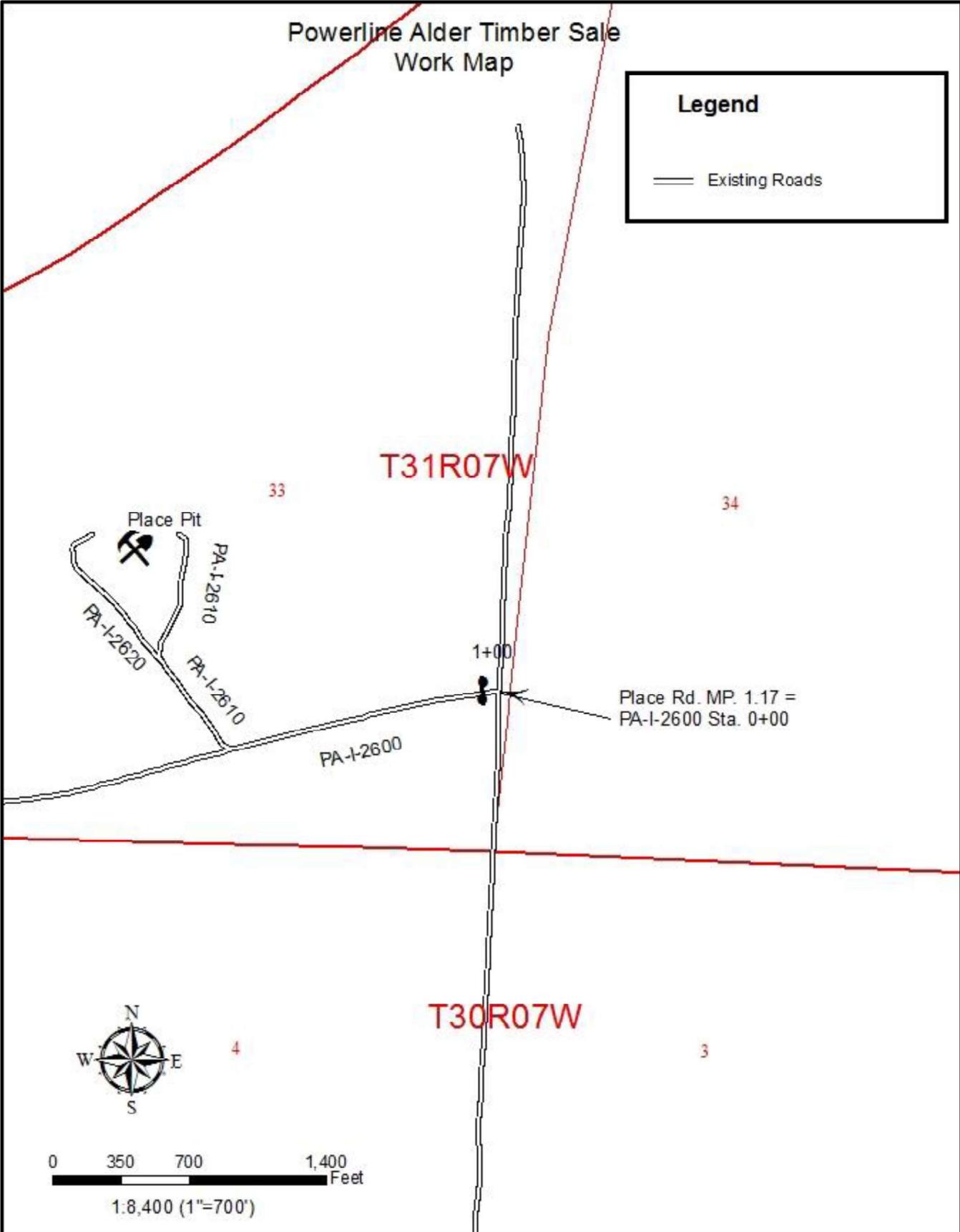
DISTRICT ENGINEER: GREG ELLIS

DATE: 5-14-20

DRAWN & COMPILED BY: SCOTT ROSE







SECTION 0 – SCOPE OF PROJECT

0-1 ROAD PLAN SCOPE

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

0-2 REQUIRED ROADS

The specified work on the following roads is required.

| <u>Road</u> | <u>Stations</u> | <u>Type</u> |
|--------------|-----------------|---------------------|
| PA-J-1000 | 0+00 to 34+80 | Prehaul Maintenance |
| PA-J-1020 | 0+00 to 13+00 | Prehaul Maintenance |
| PA-J-1021 | 0+00 to 1+60 | Prehaul Maintenance |
| PA-J-BPA3844 | 0+00 21+60 | Prehaul Maintenance |
| PA-J-1022 | 0+00 to 1+85 | Prehaul Maintenance |
| Spur 1+25 | 0+00 to 1+25 | New Construction |

0-4 CONSTRUCTION

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

| <u>Road</u> | <u>Stations</u> | <u>Requirements</u> |
|----------------|-----------------|---------------------|
| Spur 1+25 | 0+00 to 1+25 | See Below |
| Total Stations | 1.25 Stations | |

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 pre-haul maintenance requirements:

| <u>Road</u> | <u>Stations</u> | <u>Requirements</u> |
|-------------|-----------------|---|
| PA-J-1000 | 0+00 to 34+80 | Grade, shape and compact existing running surface in accordance to Clause 2-5 or as directed by contract administrator. |
| PA-J-1020 | 0+00 to 13+00 | Grade, shape and compact existing running surface in accordance to |

| | | |
|----------------|----------------|--|
| | | Clause 2-5 or as directed by contract administrator. |
| PA-J-1021 | 0+00 to 1+60 | Remove all vegetative material with a minimum loss of rock and dispose of in accordance with Clause 3-2. Grade, shape and compact existing running surface in accordance to Clause 2-5 or as directed by contract administrator. Brush road in accordance with 3-1. |
| PA-J-BPA3844 | 0+00 21+60 | Remove all vegetative material with a minimum loss of rock and dispose of in accordance with Clause 3-2. Grade, shape and compact existing running surface in accordance to Clause 2-5 or as directed by contract administrator. Brush road in accordance with 3-1. Apply rock in accordance with Rock List. |
| PA-J-1022 | 0+00 to 1+85 | Remove all vegetative material with a minimum loss of rock and dispose of in accordance with Clause 3-23. Grade, shape and compact existing running surface in accordance to Clause 2-5 or as directed by contract administrator. Brush road in accordance with 3-1. |
| Total Stations | 72.85 Stations | |

0-7 POST-HAUL MAINTENANCE

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

SECTION 1 – GENERAL

1-1 ROAD PLAN CHANGES

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

1-2 UNFORESEEN CONDITIONS

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

1-3 ROAD DIMENSIONS

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

1-4 ROAD TOLERANCES

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

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

1-6 ORDER OF PRECEDENCE

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

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

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

1-8 REPAIR OR REPLACEMENT OF DAMAGED MATERIALS

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

1-9 DAMAGED METALLIC COATING

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

1-10 WSDOT STANDARD SPECIFICATION REFERENCE

References in this road plan to “WSDOT Standard Specifications” mean the Washington State Department of Transportation’s Standard Specifications for Road, Bridge, and Municipal Construction 2012 (M41-10).

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.

1-13 LOG LOADING

At no time shall the loading of logs occur on the PA-J-BPA3844 road. In addition, no debris from harvesting operations shall be allowed on this road.

SUBSECTION ROAD MARKING

1-15 ROAD MARKING

Purchaser shall perform road work 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.

SUBSECTION TIMING

1-20 COMPLETE BY DATE

Purchaser shall complete construction and pre-haul road work before the start of timber haul unless approved by Contract Administrator.

1-21 HAUL APPROVAL

Purchaser shall not use roads under this road plan without written approval from the Contract Administrator.

1-22 WORK NOTIFICATIONS

Purchaser shall notify the Contract Administrator a minimum of 7 calendar days before work begins.

1-23 ROAD WORK PHASE APPROVAL

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

- Subgrade construction
- Drainage installation
- Subgrade compaction
- Rock application
- Rock compaction

SUBSECTION RESTRICTIONS

1-25 ACTIVITY TIMING RESTRICTION

On the following road(s), activities are not allowed during the listed closure period(s) unless authorized in writing by the Contract Administrator.

| <u>Road</u> | <u>Stations</u> | <u>Activity</u> | <u>Closure Period</u> |
|-------------|-----------------|---|--|
| All | All | All | Weekends and State Recognized Holidays |
| All | All | All roadwork activities including Timber Haul and rock pit development. | November 30th – April 30th |
| All | All | All | 8:00 PM -6:00 AM |

1-26 OPERATING DURING CLOSURE PERIOD

If permission is granted to operate during a closure period listed in Clause 1-25 ACTIVITY TIMING RESTRICTION or Contract Clause H-130 HAULING SCHEDULE, Purchaser shall provide a maintenance plan to include further protection of state resources. Purchaser shall obtain written approval from the Contract Administrator for the maintenance plan, and shall put preventative measures in place before operating during the closure period. Purchaser is required to maintain all haul roads at their own expense including those listed in Contract Clause C-060 DESIGNATED ROAD MAINTAINER. If other operators are using, or desire to use these designated maintainer roads, a joint operating plan must be developed. All parties shall follow this plan.

1-29 SEDIMENT RESTRICTION

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

1-30 CLOSURE TO PREVENT DAMAGE

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

- Wheel track rutting exceeds 4 inches on crushed rock roads.
- Wheel track rutting exceeds 4 inches on native surface roads.
- Surface or base stability problems persist.
- Weather is such that satisfactory results cannot be obtained in an area of operations.
- When, in the opinion of the Contract Administrator excessive road damage or rutting may occur.

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

1-33 SNOW PLOWING RESTRICTION

On the following road(s), snowplowing will be allowed 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.

| <u>Road</u> | <u>Stations</u> |
|-------------|-----------------|
| ALL | ALL |

SUBSECTION OTHER INFRASTRUCTURE

1-40 ROAD APPROACHES TO COUNTY ROADS AND STATE HIGHWAYS

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

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

The following county roads and state highways are affected by this sale:

| <u>Road Name</u> |
|------------------|
| Piedmont Road |
| Place Road |

1-42 UTILITY ACCESS ROAD

The following road(s) intersect(s) existing utility access roads. Purchaser shall conduct road work on the intersecting roads so that the utility access roads are accessible at all times.

| <u>Road</u> | <u>Stations</u> |
|--------------|-----------------|
| PA-J-1000 | 0+00 to 34+80 |
| PA-J-1020 | 0+00 to 13+00 |
| PA-J-1021 | 0+00 to 1+60 |
| PA-J-BPA3844 | 0+00 21+60 |
| PA-J-1022 | 0+00 to 1+85 |

1-43 ROAD WORK AROUND UTILITIES

Road work is in close proximity to a utility. Known utilities are listed, but it is the Purchaser’s responsibility to identify any utilities not listed. Purchaser shall work in accordance with all applicable laws or rules concerning utilities. Purchaser is responsible for all notification, including “call before you dig”, and liabilities associated with the utilities and their rights-of-way. Purchaser shall notify the Bonneville Power Administration utility before starting road work.

| <u>Road</u> | <u>Stations</u> | <u>Utility</u> | <u>Utility Contact</u> |
|--------------|-----------------|----------------|------------------------|
| PA-J-1000 | 31+00 to 34+80 | BPA | 811 |
| PA-J-1020 | 0+00 to 13+00 | BPA | 811 |
| PA-J-1021 | 0+00 to 1+60 | BPA | 811 |
| PA-J-BPA3844 | 0+00 21+60 | BPA | 811 |
| PA-J-1022 | 0+00 to 1+85 | BPA | 811 |
| Spur 1+25 | 0+00 to 1+25 | BPA | 811 |

SECTION 2 – MAINTENANCE

2-1 GENERAL ROAD MAINTENANCE

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

2-2 ROAD MAINTENANCE – PURCHASER MAINTENANCE

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

2-3 ROAD MAINTENANCE – DESIGNATED MAINTAINER

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

2-4 PASSAGE OF LIGHT VEHICLES

Purchaser shall maintain all road(s) in a condition that will allow the passage of light administrative vehicles.

2-5 MAINTENANCE GRADING – EXISTING ROAD

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

| <u>Road</u> | <u>Stations</u> | <u>Requirements</u> |
|--------------|-----------------|--|
| PA-J-1000 | 0+00 to 34+80 | Grade, shape, compact and remove shoulder vegetation as directed by Contract Administrator |
| PA-J-1020 | 0+00 to 13+00 | Grade, shape, compact and remove shoulder vegetation as directed by Contract Administrator |
| PA-J-1021 | 0+00 to 1+60 | Grade, shape, compact and remove shoulder vegetation as directed by Contract Administrator |
| PA-J-BPA3844 | 0+00 21+60 | Grade, shape, compact and remove shoulder vegetation as directed by Contract Administrator |
| PA-J-1022 | 0+00 to 1+85 | Grade, shape, compact and remove shoulder vegetation 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 must be disposed of as specified in Clauses 4-35 through 4-38.

| <u>Road</u> | <u>Stations</u> |
|--------------|-----------------|
| PA-J-1021 | 0+00 to 1+60 |
| PA-J-BPA3844 | 0+00 21+60 |
| PA-J-1022 | 0+00 to 1+85 |

SECTION 3 – CLEARING, GRUBBING, AND DISPOSAL

SUBSECTION BRUSHING

3-1 BRUSHING

On the following road(s), Purchaser shall cut vegetative material up to 5 inches in diameter, including limbs, as shown on the BRUSHING DETAIL. Brushing must be achieved by mechanical cutting of brush, trees, and branches. Root systems and stumps of cut vegetation may not be disturbed unless directed by the Contract Administrator. Purchaser shall remove brushing debris from the road surface, ditchlines, and culvert inlets and outlets.

| <u>Road</u> | <u>Stations</u> |
|--------------|-----------------|
| PA-J-1021 | 0+00 to 1+60 |
| PA-J-1022 | 0+00 to 1+85 |
| PA-J-BPA3844 | 0+00 21+60 |

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

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

3-8 PROHIBITED DECKING AREAS

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

- Within the grubbing limits.
- Within 50 feet of any stream.
- In locations that interfere with the construction of the road prism.
- In locations that impede drainage.

- On slopes greater than 40%.
- Against standing trees.

SUBSECTION GRUBBING

3-10 GRUBBING

Purchaser shall remove all stumps between the grubbing limits specified on the TYPICAL SECTION SHEET. Purchaser shall also remove stumps with undercut roots outside the grubbing limits. Purchaser shall remove stumps using a hydraulic mounted excavator unless authorized in writing by the Contract Administrator. Grubbing must be completed before starting excavation and embankment.

3-12 STUMP PLACEMENT

Purchaser shall place grubbed stumps outside of the clearing limits, as directed by the Contract Administrator and in compliance with all other clauses in this road plan. Stumps must 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 Clause G-010 PRODUCTS SOLD AND SALE AREA or G-011 RIGHT TO REMOVE FOREST PRODUCTS AND CONTRACT AREA, that is larger than one cubic foot in volume within the grubbing limits as shown on the TYPICAL SECTION SHEET.

3-21 DISPOSAL COMPLETION

Purchaser shall remove organic debris from the road surface, ditchlines, and culvert inlets and outlets. Purchaser shall complete all disposal of organic debris, before the application of rock.

3-23 PROHIBITED DISPOSAL AREAS

Purchaser shall not place organic debris in the following areas:

- Within 50 feet of a cross drain culvert.
- Within 100 feet of a live stream, or wetland
- On road subgrades, or excavation and embankment slopes.
- On slopes greater than 45%.
- Within the operational area for cable landings where debris may shift or roll.
- On locations where brush can fall into the ditch or onto the road surface.
- Against standing timber.

3-24 BURYING ORGANIC DEBRIS RESTRICTED

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

3-25 SCATTERING ORGANIC DEBRIS

Purchaser shall scatter organic debris outside of the grubbing limits 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

Purchaser shall pile organic debris no closer than 20 feet from standing timber and no higher than 20 feet in areas specified. Piles must be free of rock and soil.

SECTION 4 – EXCAVATION

4-2 PIONEERING

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

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

4-3 ROAD GRADE AND ALIGNMENT STANDARDS

Purchaser shall follow these standards for road grade and alignment:

- Grade and alignment must have smooth continuity, without abrupt changes in direction.
- Maximum grades may not exceed 18 percent favorable and 16 percent adverse.
- Minimum curve radius is 60 feet at centerline.
- Maximum grade change for sag vertical curves is 5% in 100 feet.
- Maximum grade change for crest vertical curves is 4% in 100 feet.

4-4 SWITCHBACK STANDARDS

A switchback is defined as a curved segment of road between a beginning and end of the same curve, where the change of traffic travel direction is greater than 90 degrees.

Purchaser shall follow these standards for switchbacks:

- Maximum adverse grades for switchbacks is 10%.
- Maximum favorable grades for switchbacks is 12%.
- Maximum transition grades entering and leaving switchbacks is a 5% grade change.
- Transition grades required to meet switchback grade limitations must be constructed on the tangents preceding and departing from the switchbacks.

4-5 CUT SLOPE RATIO

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

| <u>Material Type</u> | <u>Excavation Slope Ratio</u> | <u>Excavation Slope Percent</u> |
|---|-------------------------------|---------------------------------|
| Common Earth (on side slopes up to 55%) | 1:1 | 100 |
| Common Earth (56% to 70% side slopes) | ¾:1 | 133 |
| Common Earth (on slopes over 70%) | ½:1 | 200 |
| Fractured or loose rock | ½:1 | 200 |
| Hardpan or solid rock | ¼:1 | 400 |

4-6 EMBANKMENT SLOPE RATIO

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

| <u>Material Type</u> | <u>Embankment Slope Ratio</u> | <u>Embankment Slope Percent</u> |
|---------------------------------|-------------------------------|---------------------------------|
| Sandy Soils | 2:1 | 50 |
| Common Earth and Rounded Gravel | 1½:1 | 67 |
| Angular Rock | 1¼:1 | 80 |

4-7 SHAPING CUT AND FILL SLOPE

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

4-8 CURVE WIDENING

The minimum widening placed on the inside of curves is:

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

4-9 EMBANKMENT WIDENING

The minimum embankment widening is:

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

4-15 NO EXCAVATION IN SUBGRADE

At the specified locations, Purchaser shall not excavate the subgrade. Purchaser shall provide and install geotextile fabric as directed by Contract Administrator or as specified in the Engineer's design. Geotextile fabric must be installed to a width that is 2 feet more than the subgrade width including turnouts, and must overlap a minimum of 2

feet at all joints. Geotextile fabric must meet the specifications in Clause 10-2
 GEOTEXTILE FOR SEPARATION. Unused material will remain the property of the
 state.

| <u>Road</u> | <u>Stations</u> |
|-------------|-----------------|
| Spur 1+25 | 0+00 to 1+25 |

SUBSECTION INTERSECTIONS, TURNOUTS AND TURNAROUNDS

4-20 SUBGRADE DIMENSIONS FOR INTERSECTIONS

Purchaser shall construct the subgrade to the dimensions shown on the INTERSECTION
 DETAIL. The berm on the right side of the PA-J-BPA3844 road can be used to widen
 subgrade flare at the PA-J-1022 junction.

4-21 TURNOUTS

Purchaser shall construct turnouts intervisible with a maximum distance of 1,000 feet
 between turnouts unless otherwise shown on drawings. Locations may be adjusted to
 fit the final subgrade alignment and sight distances. Locations changes are subject to
 written approval by the Contract Administrator. Minimum dimensions are shown on
 the TYPICAL SECTION SHEET.

4-22 TURNAROUNDS

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

4-23 SUBGRADE FLARE FOR INTERSECTIONS

Intersections shall be constructed/reconstructed to include additional intersection flare.

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.

4-38 PROHIBITED WASTE DISPOSAL AREAS

Purchaser shall not deposit waste material in the following areas:

- Within 50 feet of a cross drain culvert.

- Within 100 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.

SUBSECTION BORROW

4-45 SELECT BORROW

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

4-46 COMMON BORROW

Common borrow consists of soil, and/or aggregate that is non-plastic and contains no more than 5% clay, organic debris, or trash by volume. The material is considered non-plastic if the fines 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 consists of naturally occurring material that is free of organic debris, trash, and rocks greater than 12 inches in any dimension.

4-48 BORROW MATERIAL

Borrow material may not contain more than 5% clay, organic debris, or trash by volume.

SUBSECTION SHAPING

4-55 ROAD SHAPING

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

4-56 DRY WEATHER SHAPING

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 for 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

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.

SUBSECTION SUBGRADE REINFORCEMENT

4-70 SUBGRADE REINFORCEMENT

On the following road(s), Purchaser shall provide and install geotextile fabric directed by the Contract Administrator or as specified in the Engineer's design. Subgrade reinforcement must be installed to a width that is 2 feet more than the subgrade width, including turnouts. Geotextile fabric must overlap by a minimum of 2 feet at all joints. The geotextile fabric must be covered with a minimum of 12 inches of compacted rock or material type as specified in Rock List. Geotextile fabric must meet the specifications in Clause 10-2. Unused material will remain the property of the state.

| <u>Road</u> | <u>Stations</u> |
|-------------|-----------------|
| Spur 1+25 | 0+00 to 1+25 |

SECTION 5 – DRAINAGE

5-33 NATIVE SURFACE ROADS

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

SECTION 6 – ROCK AND SURFACING

SUBSECTION ROCK SOURCE

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. Purchaser shall not remove more than 900 cubic yards of 3" minus rock. Purchaser shall not remove additional yardage without prior written approval from the Contract Administrator. Other stockpiles may not be used without prior written approval from the Contract Administrator. If the stockpile is exhausted before all of the rock called for has been removed, then the remaining rock shall come from pitrun, but not before.

| <u>Source</u> | <u>Location</u> | <u>Rock Type</u> | <u>Quantity</u> |
|---------------|--------------------|------------------|--------------------|
| Place Pit | T 31N R07W Sec. 33 | 3" minus | 900yd 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 are subject to written approval by the Contract Administrator before their use. Rock source(s) must be a WSDOT certified source. Prior to approval, purchaser shall submit a passing sieve test performed by procedure described in WSDOT FOP for WAQTC T 27/11.

SUBSECTION ROCK SOURCE DEVELOPMENT

6-12 ROCK SOURCE SPECIFICATIONS

Rock sources must be in accordance with the following specifications, unless otherwise specified in the ROCK SOURCE DEVELOPMENT AND RECLAMATION PLAN:

- Pit walls may not be undermined or over steepened. The maximum slope of the walls must 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 must be maintained in a condition to minimize the possibility of the walls sliding or failing.
- The width of pit benches must be a minimum of 1.5 times the maximum length of the largest machine used.
- The surface of pit floors and benches must be uniform and free-draining at a minimum 2% outslope gradient.
- All operations must 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.
- All vehicle access to the top of the pit faces must be blocked.

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. Unless otherwise stated in Clause 6-75 OPTIONAL ROCK EXCEPTION.

SUBSECTION ROCK APPLICATION

6-70 APPROVAL BEFORE ROCK APPLICATION

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

6-71 ROCK APPLICATION

Purchaser shall apply rock in accordance with the specifications and quantities shown on the ROCK LIST. Rock must be spread, shaped, and compacted full width concurrent with rock hauling operations. The Contract Administrator will direct locations for rock that is to be applied as spot patching. Road surfaces must be compacted in accordance with the COMPACTION LIST by routing equipment over the entire width and in lifts not to exceed 6 inches.

6-73 ROCK FOR WIDENED PORTIONS

Purchaser shall apply rock to turnarounds, turnouts, and areas with curve widening to the same depth and specifications as the traveled way.

6-75 OPTIONAL ROCK EXCEPTION

On the following roads, if hauling takes place from June 1 to September 15 Purchaser may place less rock than shown on the ROCK LIST, when approved in writing by the Contract Administrator.

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

6-76 DRY WEATHER ROCK COMPACTION

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

6-77 ROCK OVER GEOTEXTILE

On the following road(s), rock shall be applied over geotextiles in accordance with manufacturer's specifications.

| <u>Road</u> | <u>Stations</u> |
|-------------|-----------------|
| Spur 1+25 | ALL |

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.

SUBSECTION DUST ABATEMENT

6-80 WATERING FOR DUST ABATEMENT

Purchaser shall use water for dust abatement as directed by the Contract Administrator.

7-70 GATE CLOSURE

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

| <u>Road</u> | <u>Station</u> |
|-------------|----------------|
| PA-J-1020 | 0+20 |
| PA-I-2600 | 1+00 |

SUBSECTION POST-HAUL MAINTENANCE

9-5 POST-HAUL MAINTENANCE

Purchaser shall perform post-haul maintenance in accordance with the FOREST ACCESS ROAD MAINTENANCE SPECIFICATIONS and as specified below.

| <u>Road</u> | <u>Stations</u> | <u>Additional Requirements</u> |
|-------------|-----------------|--|
| All | All | Clean culverts, clean ditches, grade road shape and compact as directed by the Contract Administrator. |

SUBSECTION POST-HAUL LANDING MAINTENANCE

9-10 LANDING DRAINAGE

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

9-11 LANDING EMBANKMENT

Purchaser shall slope landing embankments to the original construction specifications.

SECTION 10 MATERIALS

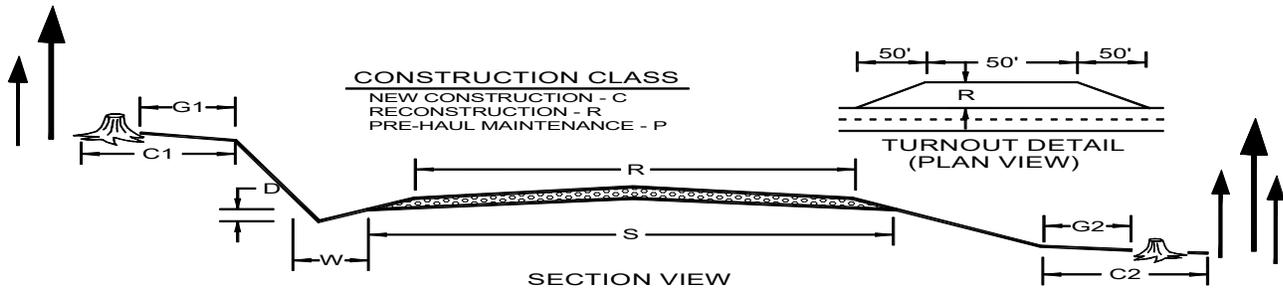
10-2 GEOTEXTILE FOR SEPARATION

Geotextiles must meet the following minimum requirements for strength and property qualities, and must be designed by the manufacturer to be used for separation. Material must be free of defects, cuts, and tears.

| | <u>ASTM Test</u> | <u>Requirements</u> |
|-----------------------|------------------|------------------------|
| Type | -- | Non-woven |
| Apparent opening size | D 4751 | No. 30 max |
| Water permittivity | D 4491 | 0.02 sec ⁻¹ |
| Grab tensile strength | D 4632 | 160 lb |

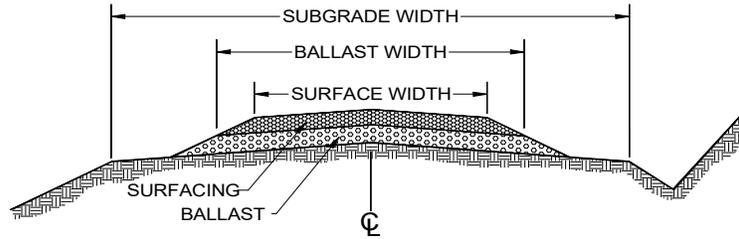
| | | |
|-------------------------|--------|--|
| Grab tensile elongation | D 4632 | >= 50% |
| Puncture strength | D 6241 | 310 lb |
| Tear strength | D 4533 | 50 lb |
| Ultraviolet stability | D 4355 | 50% retained after 500 hours of exposure |

TYPICAL SECTION SHEET



| ROAD NAME | START STATION | END STATION | CONSTRUCTION CLASS | TOLERANCE CLASS | SUBGRADE WIDTH (S) | ROAD WIDTH (R) | CROWN AT CL (in) | DITCH WIDTH (W) | DITCH DEPTH (D) | GRUBBING CUT BANK (G1) | GRUBBING FILL TOE (G2) | ROAD CUT CLEARING (C1) | ROAD FILL CLEARING (C2) |
|--------------|---------------|-------------|--------------------|-----------------|--------------------|----------------|------------------|-----------------|-----------------|------------------------|------------------------|------------------------|-------------------------|
| PA-J-1000 | 0+00 | 34+80 | P | C | 20 | 12 | 3 | 3 | 1 | 5 | 5 | 10 | 10 |
| PA-J-1020 | 0+00 | 13+00 | P | C | 17 | 12 | 3 | 3 | 1 | 5 | 5 | 10 | 10 |
| PA-J-1021 | 0+00 | 1+60 | P | C | 15 | 12 | 3 | | | 5 | 5 | 10 | 10 |
| PA-J-BPA3844 | 0+00 | 21+60 | P | C | 14 | 12 | 3 | | | 5 | 5 | 10 | 10 |
| PA-J-1022 | 0+00 | 1+85 | P | C | 15 | 12 | 3 | | | 5 | 5 | 10 | 10 |
| Spur 1+25 | 0+00 | 1+25 | C | C | 15 | 12 | 3 | | | 5 | 5 | 10 | 10 |

ROCK LIST SHEET CONTINUED



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 1½ (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:Place Pit

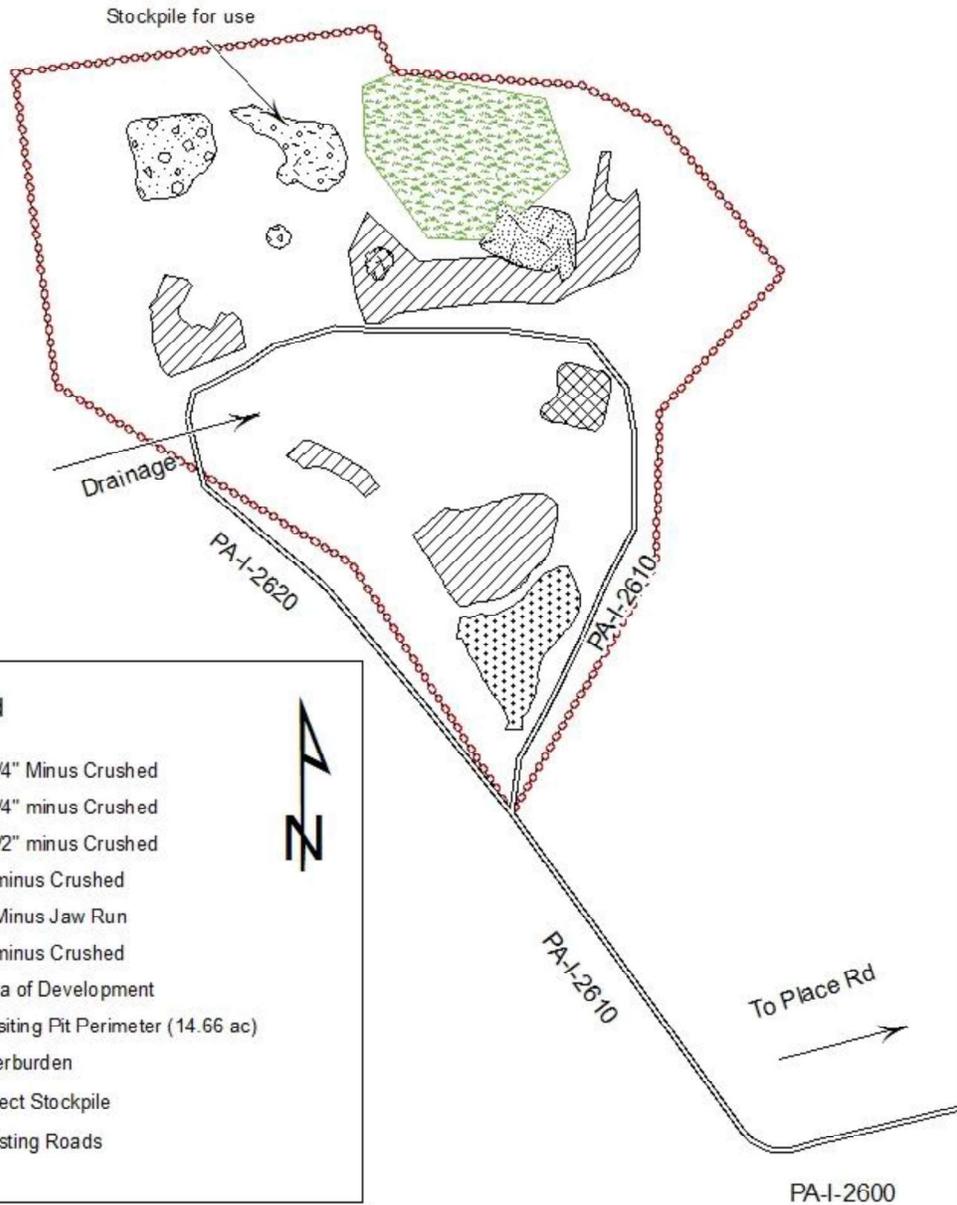
| ROAD NAME | START STATION | END STATION | SUBGRADE WIDTH (ft) | Pitrun SOURCE | Pitrun WIDTH (ft) | Pitrun DEPTH (in) | Pitrun Quantity(yd ³ /sta) | Pitrun SUBTOTAL(yd ³) | Crushed SOURCE | Crushed WIDTH (ft) | Crushed DEPTH (in) | Crushed Quantity(yd ³ /sta) | Crushed Subtotal(yd ³) | Oversize/ Rip rap Source | Oversize/Rip Rap Quantity(yd ³) |
|---------------------|---------------|-------------|---------------------|---------------|-------------------|-------------------|---------------------------------------|-----------------------------------|----------------|--------------------|--------------------|--|------------------------------------|--------------------------|---|
| PA-J-BPA3844 | | | | | | | | | | | | | | | |
| Lift | 0+00 | 21+60 | 14 | | | | | | 1 | 12 | 6 | 35 | 760 | | |
| PA-J-1022 | | | | | | | | | | | | | | | |
| Intersection Rock | 0+00 | | | | | | | | 1 | | | | 20 | | |
| Spur 1+25 | | | | | | | | | | | | | | | |
| Lift | 0+00 | 1+25 | 14 | | | | | | 1 | 12 | 12 | 70 | 90 | | |
| Landing | 1+25 | | | | | | | | 1 | | | | 30 | | |
| | | | | | | | | | | | | | | | |
| Totals: | | | | | | | | | | | | | 900 | | |
| Grand Totals: | | | | | | | | | | | | | 900 | | |

COMPACTION LIST

| Road | Stations | Type | Max Depth Per Lift (inches) | Equipment Type | Minimum Equipment Weight (lbs) | Minimum Number of Passes | Maximum Operating Speed (mph) |
|-----------------------|----------|----------------------------|-----------------------------|-----------------------|--------------------------------|--------------------------|-------------------------------|
| Pre-haul | All | Culvert Backfill | 8" | Jumping Jack | | 3 | |
| Pre-haul | All | Rock Lifts | 6" | Vibratory Smooth Drum | 6,000 | 3 | 3 |
| Pre-haul | All | Pre-haul Surface | | Vibratory Smooth Drum | 6,000 | 3 | 3 |
| Construction | All | Subgrade (Except Puncheon) | 6" | Vibratory Smooth Drum | 6,000 | 2 | 3 |
| Construction | All | Culvert Backfill | 8" | Jumping Jack | | 3 | |
| Construction | All | Rock Placement | 6" | Vibratory Smooth Drum | 6,000 | 2 | 3 |
| Reconstruction | All | Subgrade (Except Puncheon) | 6" | Vibratory Smooth Drum | 6,000 | 2 | 3 |
| Reconstruction | All | Culvert Backfill | 8" | Jumping Jack | | 3 | |
| Reconstruction | All | Rock Placement | 6" | Vibratory Smooth Drum | 6,000 | 2 | 3 |
| Post-haul Maintenance | All | Rock Placement | 6" | Vibratory Smooth Drum | 6,000 | 2 | 3 |

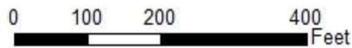
Place Pit
 Rock Source Development Plan
 Sec. 33, T.31N., R.7W.

9/27/2018
 Greg Ellis



Legend

- 1 1/4" Minus Crushed
- 1 1/4" minus Crushed
- 2 1/2" minus Crushed
- 2" minus Crushed
- 3" Minus Jaw Run
- 3" minus Crushed
- Area of Development
- Existing Pit Perimeter (14.66 ac)
- Overburden
- Reject Stockpile
- Existing Roads



Place Pit
ROCK SOURCE DEVELOPMENT PLAN
Sec. 33, T.31N., R.07W.
PIT USE REQUIREMENTS

PIT USE REQUIREMENTS include but are not limited to the following:

1. Purchaser shall give the Contract Administrator a minimum of 7 days' notice prior to commencing any operations, and prepare an approved ROCK SOURCE DEVELOPMENT PLAN as per **Clause 6-10**.
2. Only the quantities and sorts specified in this road plan for this sale may be used or manufactured, unless otherwise approved by the Contract Administrator in writing.
3. If Purchaser elects to use rock from a stockpile or from a pit face, Purchaser shall remove no more than the following volume of material (cubic yards truck measure) from the existing stockpile or pit face as shown on the PLAN VIEW and PROFILE VIEW, unless otherwise approved by the Contract Administrator in writing.
4. Maintain drainage of the pit floor and all drainage structures within the pit boundaries at all times to the designated settling ponds.
5. Excavated face height shall not exceed 15 feet.
6. All excavated slopes shall have a 1 1/2:1 backslope or less at the completion of operations.
7. A minimum 4 foot high berm shall be constructed and constantly maintained along the upper edge of excavated pit faces. No pit faces shall be left unblocked at any time.
8. All operations shall be completed prior to the end of each operating season, including but not limited to: drainage maintenance, sloping of the excavated face, and construction of berms, unless otherwise approved in writing by the Contract Administrator.
9. The quality and quantity of rock and materials are not guaranteed.
10. All material shall remain the property of the State.
11. At the conclusion of operations, Purchaser shall ask the Contract Administrator for written approval of the final rock source condition and compliance with the terms of this plan.
12. All operations shall be carried out in compliance with the regulation of:
 - a. Regulations and Standards Applicable to "Metal and Nonmetal Mining and Milling Operations" (30 CFR) U.S. Department of Labor, Mine Safety and Health Administration
13. All work shall be conducted according to relevant specifications in this Road Plan, and the Contract Administrator.

Forest Access Road Maintenance Specifications

Cuts and Fills

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

Surface

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

Drainage

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

Forest Access Road Maintenance Specifications

Preventative Maintenance

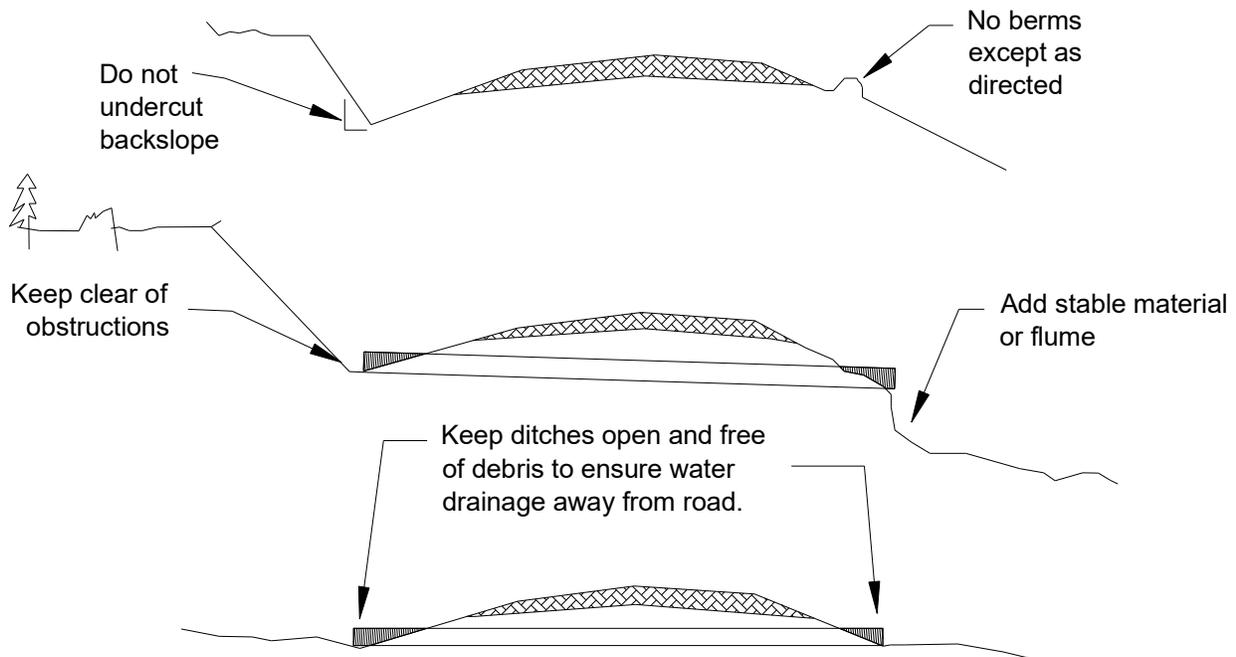
- Perform preventative maintenance work to safeguard against storm damage, such as blading to ensure correct runoff, ditch and culvert cleaning, and waterbar maintenance.

Termination of Use or End of Season

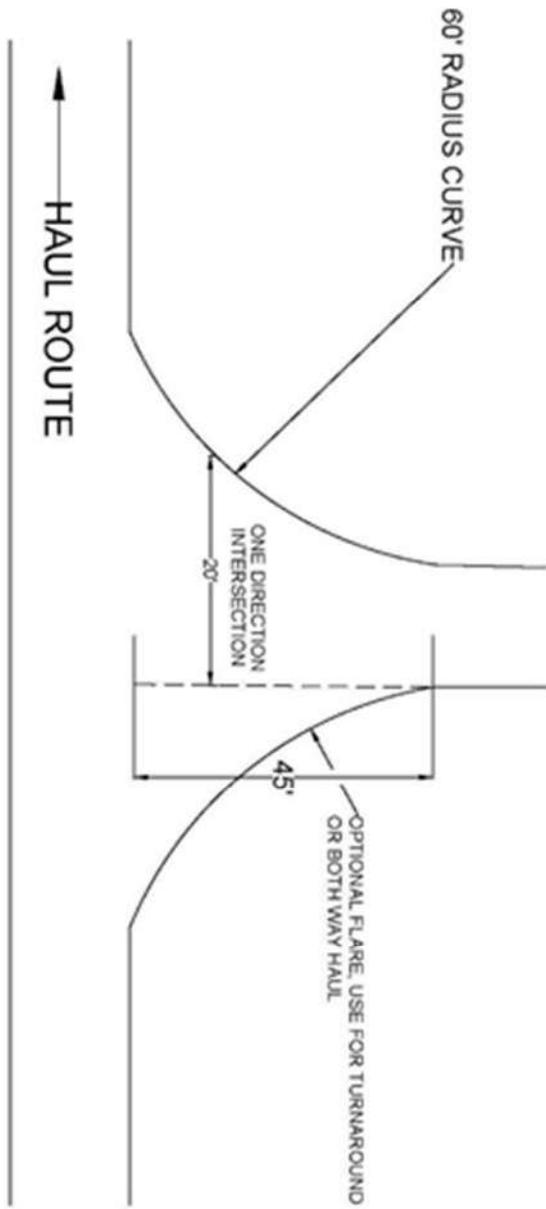
- At the conclusion of logging operations, ensure all conditions of these specifications have been met.

Debris

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

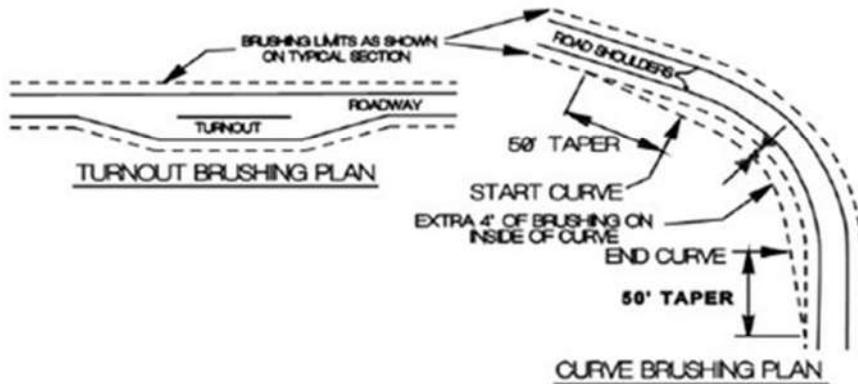
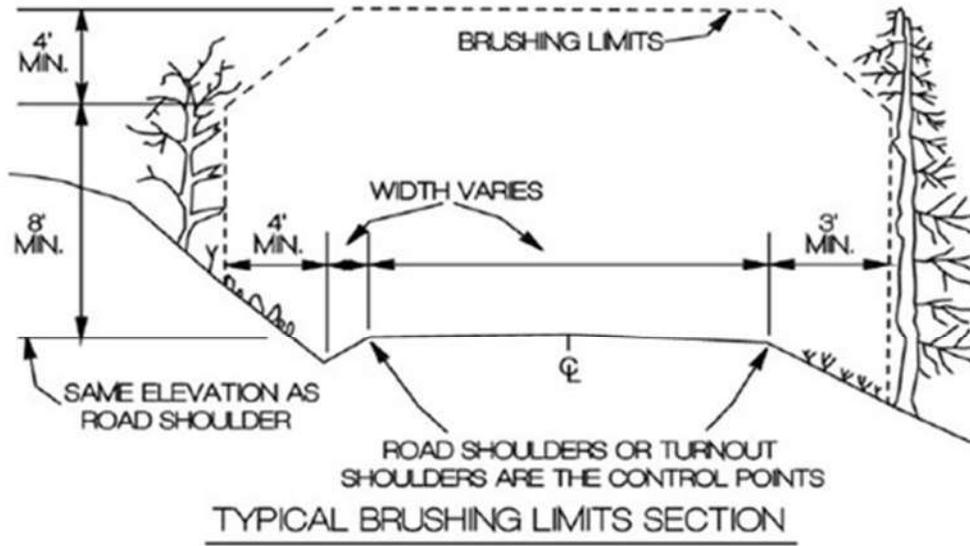


TYPICAL INTERSECTION



NOT TO SCALE

BRUSHING DETAIL



- 1) ALL VEGETATION WITHIN THE BRUSHING LIMITS SHALL BE CUT TO WITHIN 8' OF THE GROUND, UNLESS OTHERWISE DIRECTED 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.

| SUMMARY - Road Development Costs | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-----------------|------------|-----------|-----------|---------------------|-----------|-----------|----------|--|---------------|--------|----------|---------|----------|---------------------|---------------|-------|-------|--------|-------|----------|--------------|---|---|----|----|---------|-----------------|-------|---|-----|----|----------|---------------|---|--|--|--|----------------|
| SALE NAME: | Powerline Alder | CONTRACT#: | 30-100692 | REGION: | Olympic | DISTRICT: | Strait | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LEGAL DESCRIPTION: | T31R08W | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ROAD NAME: | SPUR H-25 | PA-I-1000 | PA-I-1020 | PA-I-1021 | PA-I-BP-A3844 | PA-I-1022 | All Roads | TOTAL: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ROAD TYPE: | Construction | Prehaul | Prehaul | Prehaul | Prehaul | Prehaul | Posthaul | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NUMBER OF STATIONS: | 1.25 | 35 | 13 | 2 | 22 | 2 | 74.10 | 148.20 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SIDE SLOPE: | 10% | 0% | 0% | 0% | 0% | 0% | 0% | 10% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CLEARING AND GRUBBING: | \$107 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$107 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ROAD BRUSHING: | \$0 | \$0 | \$0 | \$29 | \$0 | \$33 | \$0 | \$62 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EXCAVATION AND FILL: | \$212 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$212 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ROAD GRADING: | \$226 | \$85 | \$10 | \$140 | \$12 | \$482 | \$955 | \$955 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DITCH CLEANING/CONSTRUCTION: | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ROCK TOTALS (Cu. Yds.)/ROCK COSTS: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ballast: | 0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Surface: | 900 | \$120 | \$0 | \$0 | \$7,509 | \$198 | \$0 | \$8,892 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Oversize: | 0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CULVERTS AND FLUMES: | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| STRUCTURES: | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MISC. EXPENSES: | \$7 | \$204 | \$76 | \$159 | \$126 | \$195 | \$433 | \$1,201 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| OVERHEAD: | \$181 | \$47 | \$18 | \$22 | \$855 | \$48 | \$110 | \$1,281 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TOTAL COSTS: | \$1,693 | \$477 | \$178 | \$220 | \$8,631 | \$486 | \$1,025 | \$12,710 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| COST PER STATION: | \$1,354 | \$14 | \$14 | \$138 | \$400 | \$263 | \$14 | \$86 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MOBILIZATION: | | | \$5,150 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ROAD DEACTIVATION AND ABANDONMENT COSTS: | | | \$0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pit Work | | | \$0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Road Standard</th> <th>Const.</th> <th>Reconst.</th> <th>Prehaul</th> <th>Posthaul</th> <th>TOTAL (All Roads) =</th> </tr> </thead> <tbody> <tr> <td>Total Costs =</td> <td>2,981</td> <td>1,288</td> <td>11,280</td> <td>2,312</td> <td>\$17,860</td> </tr> <tr> <td>Total Sta. =</td> <td>1</td> <td>0</td> <td>73</td> <td>73</td> <td>\$72.60</td> </tr> <tr> <td>Cost per Sta. =</td> <td>2,384</td> <td>0</td> <td>155</td> <td>32</td> <td>\$120.51</td> </tr> <tr> <td>Completed by:</td> <td>0</td> <td></td> <td></td> <td></td> <td>Date: 04/02/20</td> </tr> </tbody> </table> | | | | | | | | | | Road Standard | Const. | Reconst. | Prehaul | Posthaul | TOTAL (All Roads) = | Total Costs = | 2,981 | 1,288 | 11,280 | 2,312 | \$17,860 | Total Sta. = | 1 | 0 | 73 | 73 | \$72.60 | Cost per Sta. = | 2,384 | 0 | 155 | 32 | \$120.51 | Completed by: | 0 | | | | Date: 04/02/20 |
| Road Standard | Const. | Reconst. | Prehaul | Posthaul | TOTAL (All Roads) = | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Total Costs = | 2,981 | 1,288 | 11,280 | 2,312 | \$17,860 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Total Sta. = | 1 | 0 | 73 | 73 | \$72.60 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cost per Sta. = | 2,384 | 0 | 155 | 32 | \$120.51 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Completed by: | 0 | | | | Date: 04/02/20 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NOTE: This appraisal has no allowance for profit and risk. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sheet 1 of 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Plans to be furnished by: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |