



TIMBER NOTICE OF SALE

SALE NAME: DODGE CITY

AGREEMENT NO: 30-107463

AUCTION: December 19, 2024 starting at 10:00 a.m., **COUNTY:** Pacific
Pacific Cascade Region Office, Castle Rock, WA

SALE LOCATION: Sale located approximately 26 miles east of Raymond, WA

**PRODUCTS SOLD
AND SALE AREA:**

All timber, except leave trees bound by yellow "Leave Tree Area" tags, leave trees marked with blue paint, all down timber greater than 55 inches diameter, all timber 60 inches DBH and greater, and snags bound by the following;

Unit 1, white "Timber Sale Boundary" tags, pink flagging, RCP Mainline and the RCP 100;

Unit 2, white "Timber Sale Boundary" tags, pink flagging, RCP Mainline and the RCP 900;

Unit 3, white "Timber Sale Boundary" tags with pink flagging;

Unit 4 (ROW), orange "Right-of-Way" tags and orange flagging;

All forest products above located on part(s) of Sections 3 all in Township 12 North, Range 6 West, Sections 23, 25, 26, 34, 35 and 36 all in Township 13 North, Range 6 West, W.M., containing 188 acres, more or less.

CERTIFICATION: This sale is certified under the Sustainable Forestry Initiative® program Standard (cert no: BVC-SFIFM-018227)

ESTIMATED SALE VOLUMES AND QUALITY:

Species	Avg DBH	Ring Count	Total MBF	MBF by Grade								UT
				1P	2P	3P	SM	1S	2S	3S	4S	
Douglas fir	17.6	7	4,492						2,081	2,005	380	26
Hemlock	17.9		76						47	22	7	
Red alder	13.9		73						14	17	42	
Maple	13		7							3	4	
Sale Total			4,648									

MINIMUM BID: \$1,459,000.00

BID METHOD: Sealed Bids

**PERFORMANCE
SECURITY:**

\$100,000.00

SALE TYPE: Lump Sum

EXPIRATION DATE: October 31, 2026

ALLOCATION: Export Restricted

BID DEPOSIT: \$145,900.00 or Bid Bond. Said deposit shall constitute an opening bid at the appraised price.

HARVEST METHOD: Cable, Cable-Assist, Shovel, and Track skidder. This sale is estimated to be 30 percent cable, 70 percent ground based harvest systems. Ground based harvesting is restricted to sustained slopes of 50 percent or less, self-leveling equipment to 70 percent or less.



TIMBER NOTICE OF SALE

ROADS: 16.38 stations of required construction. 1.20 stations of required reconstruction. 9.50 stations of optional construction. 14.00 stations of optional reconstruction. 395.19 stations of required prehaul maintenance. 16.66 stations of abandonment.

Rock used in accordance with the quantities on the ROCK LIST may be obtained from the Walville Quarry located in Section 23, T13N, R6W, W.M. on state land at no charge to the Purchaser.

Rock used in accordance with the quantities on the ROCK LIST may be obtained from the Walville Quarry existing stockpile(s) located in Section 23, T13N, R6W W.M. on state land at no charge to the Purchaser.

Rock used in accordance with the RCP ML BRIDGE BACKWALL DETAIL and PLANS sheets shall be obtained from any commercial source at the Purchaser's expense. Rock used in accordance with the quantities on the ROCK LIST may be obtained from any commercial source at the Purchaser's expense.

Purchaser shall conduct rock source development and use at the Walville Quarry located in Section 23, T13N, R6W, W.M., in accordance with the written ROCK SOURCE DEVELOPMENT PLAN prepared by the state and included in this road plan.

Purchaser shall provide an excavator and rock drill with operator for up to 10 hours each of exploration of rock and other related work as directed by the Contract Administrator at the Walville Quarry in Section 23, T13N, R6W, W.M.

See road plan for further details. The hauling of forest products will not be permitted from November 1 to March 31 unless authorized in writing by the Contract Administrator.

ACREAGE DETERMINATION

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

FEES: \$79,000.00 is due on day of sale. \$9.00 per MBF is due upon removal. These are in addition to the bid price.

SPECIAL REMARKS: This sale contains approximately 506 MBF High Quality 2 saw DF, 238 MBF High Quality 3 saw DF. See Cruise for additional information.

Backwall replacement on the RCP ML bridge will be required in accordance with the design in the road plan.

TIMBER SALE MAP

SALE NAME: DODGE CITY

AGREEMENT#: 30-107463

TOWNSHIP(S): T12R6W, T13R6W

TRUST(S): Common School and Indemnity (3), State Forest Purchase (2), State Forest Transfer (1)

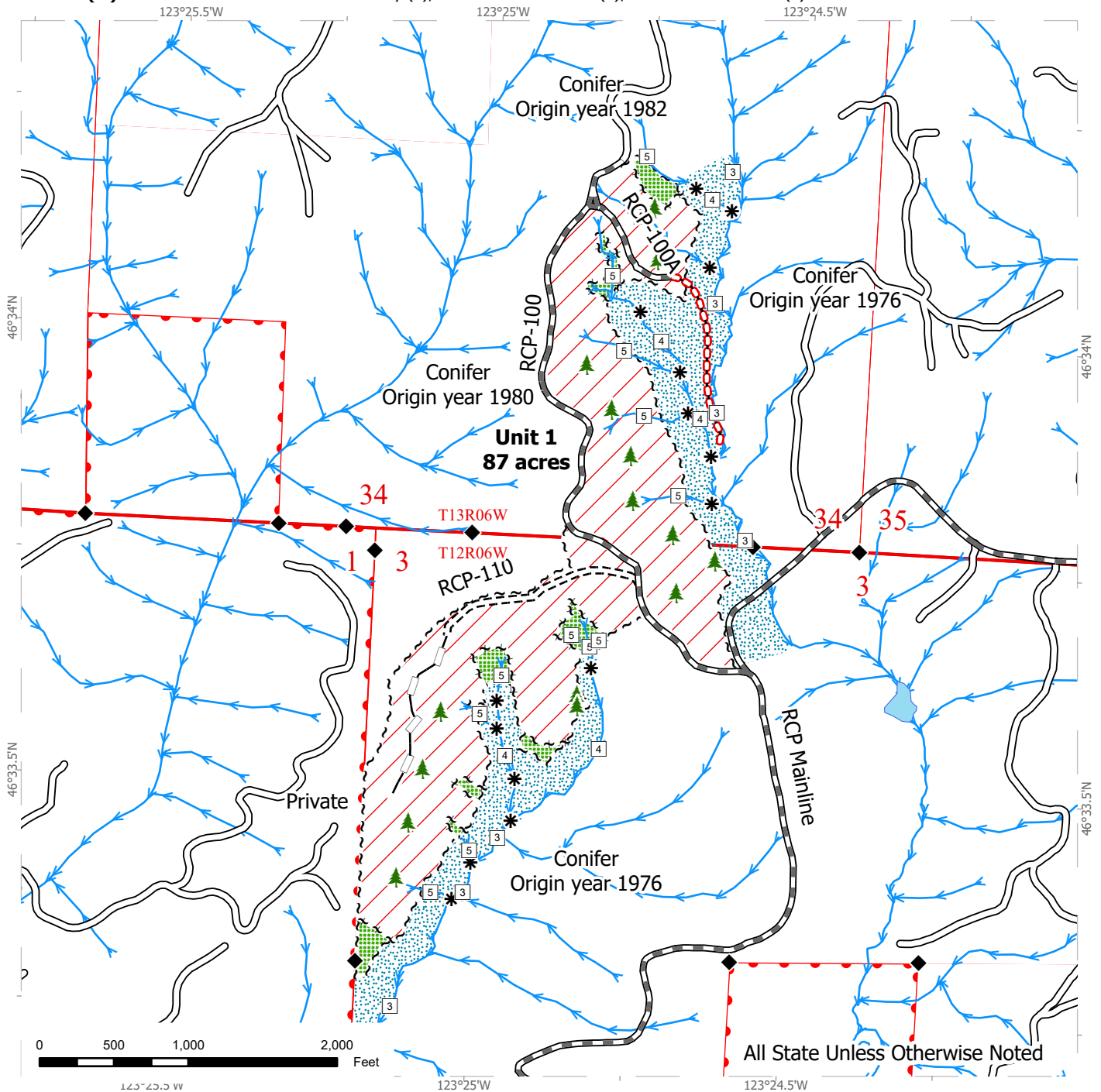
REGION:

Pacific Cascade Region

COUNTY(S):

Pacific

ELEVATION RGE: 680-1160



- / Variable Retention Harvest
- Leave Tree Area
- Riparian Mgt Zone
- ~ ~ Sale Boundary Tags
- ~ ~ Leave Tree Tags

- Existing Roads
- Required Pre-Haul Maintenance
- Required Construction
- Optional Reconstruction
- Required Abandonment

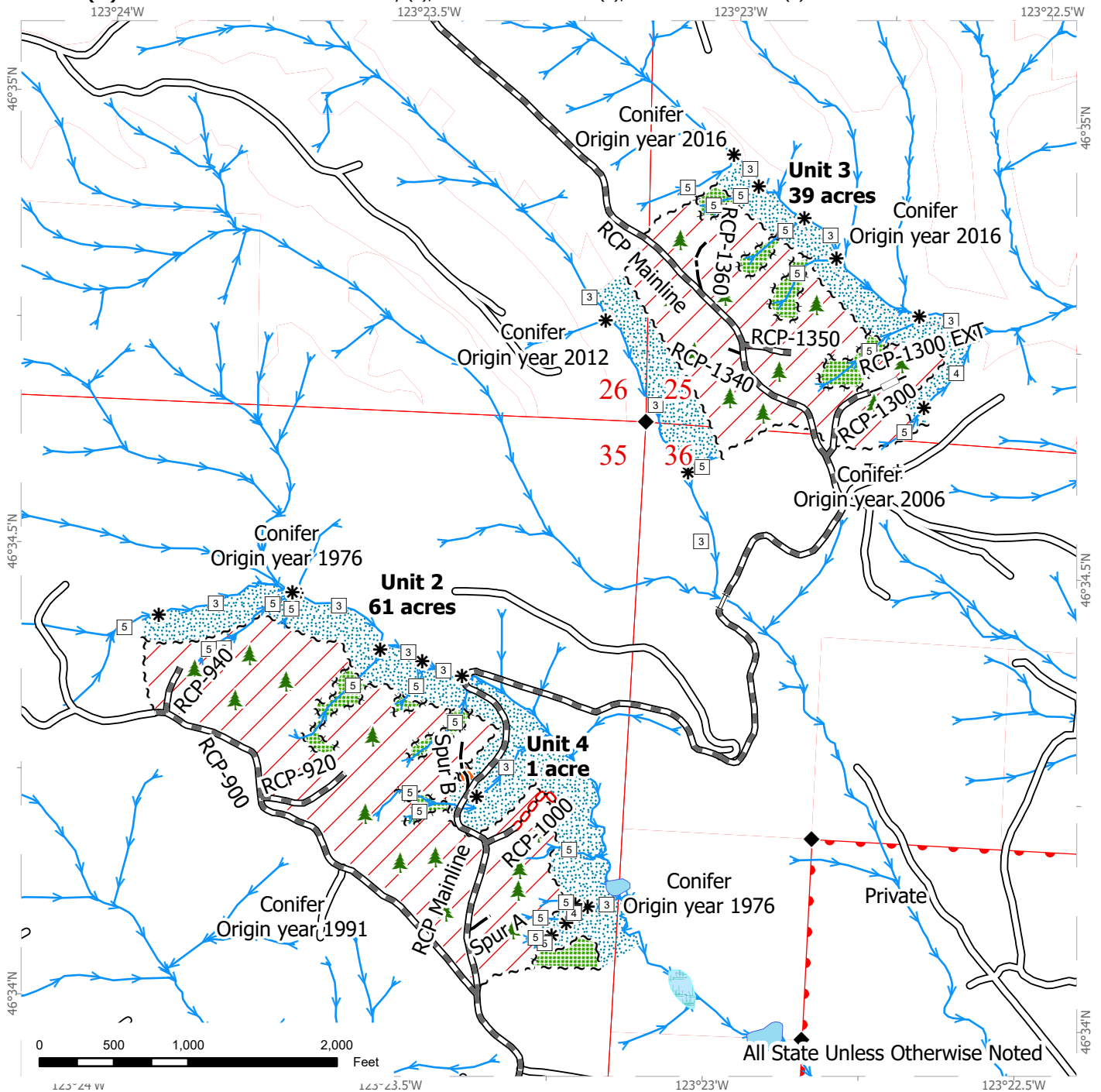
- Streams
- Stream Type
- ✱ Stream Break
- ✱ Leave Tree Area <1/4-acre
- ◆ Survey Monument



TIMBER SALE MAP

SALE NAME: DODGE CITY
AGREEMENT#: 30-107463
TOWNSHIP(S): T12R6W, T13R6W
TRUST(S): Common School and Indemnity (3), State Forest Purchase (2), State Forest Transfer (1)

REGION: Pacific Cascade Region
COUNTY(S): Pacific
ELEVATION RGE: 680-1160



- | | | |
|----------------------------|-------------------------------|---------------------------|
| Variable Retention Harvest | Existing Roads | Streams |
| Right-of-Way Harvest | Required Pre-Haul Maintenance | Stream Type |
| Leave Tree Area | Required Reconstruction | Stream Break |
| Riparian Mgt Zone | Optional Construction | Leave Tree Area <1/4-acre |
| Sale Boundary Tags | Optional Reconstruction | Survey Monument |
| Leave Tree Tags | Required Abandonment | |
| Right of Way Tags | | |

DRIVING MAP

SALE NAME: DODGE CITY

AGREEMENT#: 30-107463

TOWNSHIP(S): T12R6W, T13R6W

TRUST(S): Common School and Indemnity (3), State Forest Purchase (2), State Forest Transfer (1)

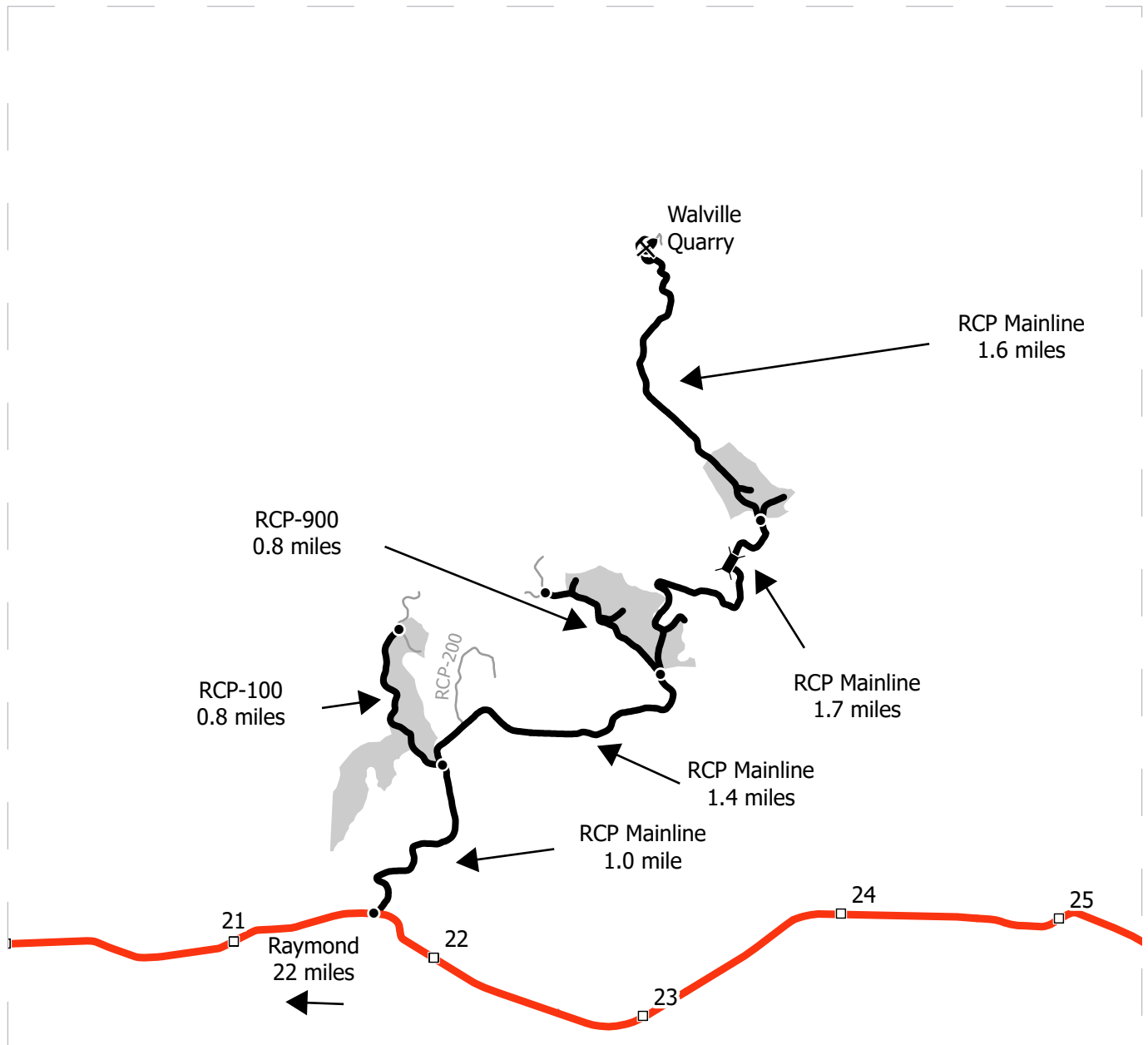
REGION:

Pacific Cascade Region

COUNTY(S):

Pacific

ELEVATION RGE: 680-1160



Map may not be to scale

- Harvest Unit
- Highway
- Haul Route
- Other Route
- Milepost Marker
- Distance Indicator
- Bridge
- Rock Pit

DRIVING DIRECTIONS:

Units: Between milepost 21 and 22 on SR 6, turn north on to the RCP Mainline. Continue on for 1.0 mile and turn left on to the RCP-100 to arrive at Unit 1. Continue on the RCP Mainline for 1.4 miles and turn left on to the RCP-900 to arrive at Unit 2. Continue on the RCP Mainline for 1.7 miles to arrive at Unit 3.

Rock Quarry: From Unit 3 continue on RCP Mainline for 1.6 mile to the Walville Quarry.

**STATE OF WASHINGTON
DEPARTMENT OF NATURAL RESOURCES**

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

Export Restricted Lump Sum AGREEMENT NO. 30-0107463

SALE NAME: DODGE CITY

**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 December 19, 2024 and the sale was confirmed on _____. The State, as owner, agrees to sell to Purchaser, and Purchaser agrees to purchase as much of the following forest products as can be cut and removed during the term of this contract: All timber, except leave trees bound by yellow "Leave Tree Area" tags, leave trees marked with blue paint, all down timber greater than 55 inches diameter, all timber 60 inches DBH and greater, and snags bound by the following;

Unit 1, white "Timber Sale Boundary" tags, pink flagging, RCP Mainline and the RCP 100;

Unit 2, white "Timber Sale Boundary" tags, pink flagging, RCP Mainline and the RCP 900;

Unit 3, white "Timber Sale Boundary" tags with pink flagging;

Unit 4 (ROW), orange "Right-of-Way" tags and orange flagging;

All forest products described above located on approximately 188 acres on part(s) of Section 3 in Township 12 North, Range 6 West, Sections 23, 25, 26, 34, 35, and 36 all in Township 13 North, Range 6 West W.M. in Pacific County(s) as designated on the sale area and as shown on the attached timber sale map.

All forest products described above from the bole of the tree that meet or exceed 2 inches diameter inside bark on the small end are eligible for removal. Above ground components of a tree that remain as by-products after the manufacture of logs, including but not limited to tree tops, branches, limbs, needles, leaves, stumps, are not eligible for removal under the terms of this contract.

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

G-020 Inspection By Purchaser

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

G-031 Contract Term

Purchaser shall complete all work required by this contract prior to October 31, 2026.

G-040 Contract Term Adjustment - No Payment

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

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

G-051 Contract Term Extension - Payment

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

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

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

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

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

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

- e. Payment of \$1,250.00 per acre per annum for the acres on which an operating release has not been issued .

- f. In no event will the extension charge be less than \$200.00.

- g. Extension payments are non-refundable.

G-053 Surveys - Sensitive, Threatened, Endangered Species

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

G-060 Exclusion of Warranties

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

- a. The MERCHANTABILITY of the forest products. The use of the term "merchantable" in any document is not intended to vary the foregoing.
- b. The CONDITION of the forest products. The forest products will be conveyed "AS IS."
- c. The ACREAGE contained within any sale area. Any acreage descriptions appearing in the timber notice of sale, timber sale contract, or other documents are estimates only, provided solely for administrative and identification purposes.
- d. The VOLUME, QUALITY, OR GRADE of the forest products. The State neither warrants nor limits the amount of timber to be harvested. The descriptions of the forest products to be conveyed are estimates only, made solely for administrative and identification purposes.

- e. The CORRECTNESS OF ANY SOIL OR SURFACE CONDITIONS, PRE-SALE CONSTRUCTION APPRAISALS, INVESTIGATIONS, AND ALL OTHER PRE-BID DOCUMENTS PREPARED BY OR FOR THE STATE. These documents have been prepared for the State's appraisal purposes only.
- f. THAT THE SALE AREA IS FREE FROM THREATENED OR ENDANGERED SPECIES or their habitat. The State is not responsible for any interference with forestry operations that result from the presence of any threatened or endangered species, or the presence of their habitat, within the sale area.
- g. THAT THE FORESTRY OPERATIONS to be performed under this contract WILL BE FREE FROM REGULATORY ACTIONS by governmental agencies. The State is not responsible for actions to enforce regulatory laws, such as the Washington Forest Practices Act (chapter 76.09 RCW), taken by the Department of Natural Resources or any other agency that may affect the operability of this timber sale.
- h. Items contained in any other documents prepared for or by the State.

G-061 Inadvertent Discovery of Cultural Resources

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

G-062 Habitat Conservation Plan

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

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

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

G-063 Incidental Take Permit Notification Requirements

- a. Purchaser shall immediately notify the Contract Administrator of new locations of permit species covered by the Incidental Take Permits (ITP) that are discovered within the area covered by the State's Habitat Conservation Plan (HCP), including, but not limited to: locations of occupied murrelet habitat; spotted owl nest sites; wolves; grizzly bears; nests, communal roosts, or feeding concentrations of bald eagles; peregrine falcon nests; Columbian white-tailed deer; Aleutian Canada geese; Oregon silverspot butterflies; and additional stream reaches found to contain bull trout. Purchaser is required to notify the Contract Administrator upon discovery of any fish species found in streams or bodies of water classified as non-fish bearing. In all circumstances, notification must occur within a 24 hour time period.
- b. Upon locating any live, dead, injured, or sick specimens of any permit species covered by the ITP, Purchaser shall immediately notify the Contract Administrator. Purchaser shall notify the Contract Administrator if there is any doubt as to the identification of a discovered permit species. Purchaser may be required to take certain actions to help the Contract Administrator safeguard the well-being of any live, injured or sick specimens of any permit species discovered, until the proper disposition of such specimens can be determined by the Contract Administrator. Any such requirements will be explained to Purchaser by the Contract Administrator during the Pre-Work Conference. In all circumstances, notification must occur within a 24 hour time period.
- c. Purchaser shall refer to a specific ITP number, ITP TE812521-1 or ITP 1168 (copies which are located in the region office) in all correspondence and reports concerning permit activities.
- d. Provisions and requirements of the ITP shall be clearly presented and explained to Purchaser by Contract Administrator during the Pre-Work Conference as per contract clause G-330. All applicable provisions of the ITP and this schedule must be presented and clearly explained by Purchaser to all

authorized officers, employees, contractors, or agents of Purchaser conducting authorized activities in the timber sale area. Any questions Purchaser may have about the ITP should be directed to the Contract Administrator.

G-064 Permits

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

G-065 Regulatory Disclaimer

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

G-066 Governmental Regulatory Actions

a. Risk

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

b. Sale Area

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

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

c. Adjustment of Price

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

removing timber. A reduction in total contract price terminates all of the Purchaser's rights to purchase and remove the timber and all other interest in the affected sale area.

G-070 Limitation on Damage

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

G-080 Scope of State Advice

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

G-091 Sale Area Adjustment

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

G-101 Forest Products Not Designated

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

The pricing schedule has not been set for the sale.

G-111 Title and Risk of Loss

Title to the forest products under this contract passes to the Purchaser after they are removed from the sale area, if adequate advance payment or payment security has been provided to the State under this contract. Purchaser bears all risk of loss of, or damage to, and has an insurable interest in, the forest products described in this contract from

the time the sale is confirmed under RCW 79.15.120. Breach of this contract shall have no effect on this provision.

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

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

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

G-120 Responsibility for Work

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

G-121 Exceptions

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

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

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

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

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

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

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

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

G-140 Indemnity

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

G-150 Insurance

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

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

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

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

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

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

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

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

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

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

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

that include, but are not limited to, fire suppression expenses, accidental timber trespasses, and wildfire property damage with limits of not less than \$2,000,000.00 each occurrence.

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

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

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

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

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

G-160 Agents

The State's rights and duties will be exercised by the Region Manager at Castle Rock, Washington. The Region Manager will notify Purchaser in writing who is responsible for administering the contract. The Region Manager has sole authority to waive,

modify, or amend the terms of this contract in the manner prescribed in clause G-180. No agent, employee, or representative of the State has any authority to bind the State to any affirmation, representation, or warranty concerning the forest products conveyed beyond the terms of this contract.

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

G-170 Assignment and Delegation

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

G-180 Modifications

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

G-190 Contract Complete

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

G-200 Notice

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

G-210 Violation of Contract

G-220 State Suspends Operations

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

G-210 Violation of Contract

- a. If Purchaser violates any provision of this contract, the Contract Administrator, by written notice, may suspend those operations in violation. If the violation is capable of being remedied, Purchaser has 30 days after receipt of a suspension notice to remedy the violation. If the violation cannot be remedied (such as a violation of WAC 240-15-015) or Purchaser fails to remedy the violation within 30 days after receipt of a suspension notice, the

State may terminate the rights of Purchaser under this contract and collect damages.

- b. If the contract expires pursuant to clause G-030 or G-031 without Purchaser having performed all its duties under this contract, Purchaser's right to operate is terminated and Purchaser shall not have the right to remedy the breach. This provision shall not relieve Purchaser of any payment obligations.
- c. The State has the right to remedy the breach in the absence of any indicated attempt by Purchaser or if Purchaser is unable, as determined by the State, to remedy the breach. Any expense incurred by the State shall be charged to Purchaser and shall be paid within 30 days of receipt of billing.
- d. If Purchaser's violation is a result of a failure to make a payment when due, in addition to a. and b. above, interest shall accrue on the unpaid balance at 12 percent per annum, beginning the date payment was due.

G-220 State Suspends Operations

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

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

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

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

G-230 Unauthorized Activity

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

G-240 Dispute Resolution

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

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

G-250 Compliance with All Laws

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

G-260 Venue

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

G-270 Equipment Left on State Land

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

G-280 Operating Release

An operating release is a written document, signed by the State and Purchaser, indicating that Purchaser has been relieved of certain rights or responsibilities with regard to the entire or a portion of the timber sales contract. Purchaser and State may agree to an operating release for this sale, or portion of this sale, prior to the contract

expiration, when all contract requirements pertaining to the release area have been satisfactorily completed. Upon issuance of a release, Purchaser's right to cut and remove forest products on the released area will terminate.

G-310 Road Use Authorization

Purchaser is authorized to use the following State roads and roads for which the State has acquired easements and road use permits; RCP Mainline, SPUR A, SPUR B, RCP-100, RCP-102, RCP-110, RCP-900, RCP-920, RCP-940, RCP-1000, RCP-1300, RCP-1300 EXT RCP-1340, RCP-1350 and RCP-1360. 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 RCP Mainline and RCP-100 roads, 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:

Easement, including the terms and provisions thereof,

For: Road

In Favor of: Weyerhaeuser Company

Disclosed by Application No.: 50-038600

Granted: December 22, 1975

Expires: Indefinite

Easement, including the terms and provisions thereof,

For: Road

In Favor of: Weyerhaeuser Company & Walville Lumber Company

Disclosed by Application No.: 50-041356

Granted: June 4, 1918 & August 27, 1923

Expires: Indefinite

Lease, including the terms and provisions thereof,

For: Minor Forest Products

In Favor of: DNR – Pacific Cascade Region

Disclosed by Application No.: 35-CP0002

Granted: January 1, 1993

Expires: Indefinite

Lease, including the terms and provisions thereof,

For: Minor Forest Products

In Favor of: DNR – Pacific Cascade Region

Disclosed by Application No.: 35-RP0010

Granted: July 1, 2024

Expires: Indefinite

Research Plot, including the terms and provisions thereof,

For: Genetically Selected Trees

In Favor of: DNR – Webster Nursery

Disclosed by Application No.: 91-004030

Granted: December 1, 1975

Expires: December 31, 2050

Research Plot, including the terms and provisions thereof,

For: Genetically Selected Trees

In Favor of: DNR – Webster Nursery

Disclosed by Application No.: 91-004041

Granted: July 1, 1975

Expires: December 31, 2050

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 \$120,832.00. The total contract price consists of a \$0.00 contract bid price plus \$120,832.00 in fees. Fees collected shall be retained by the state unless the contract is adjusted via the G-066 clause. Purchaser shall be liable for the entire purchase price, and will not be entitled to any refunds or offsets unless expressly stated in this contract.

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

P-045 Guarantee of Payment

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

P-050 Billing Procedure

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

P-080 Payment Account Refund

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

P-090 Performance Security

Purchaser agrees to furnish, within 30 days of the confirmation date, security acceptable to the State in the amount of \$100,000.00. The Security provided shall

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

P-100 Performance Security Reduction

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

Section H: Harvesting Operations

H-013 Reserve Tree Damage Definition

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

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

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

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

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

H-017 Preventing Excessive Soil Disturbance

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

H-035 Fall Trees Into Sale Area

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

H-051 Branding and Painting

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

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

H-120 Harvesting Equipment

Forest products sold under this contract shall be harvested and removed using Cable, Cable-Assist, Shovel, Tracked Skidder, 6 Wheeled Skidder similar to Eco Tracks™. Equipment Restrictions: Cable-Assist - 70 percent, Shovel and tracked skidder - 50 percent, Self-leveling shovels - 70 percent, 6 Wheeled Skidder similar to Eco Tracks™ - 40 percent. Authority to use other equipment or to operate outside the equipment specifications detailed above must be approved in writing by the State.

H-125 Log Suspension Requirements

Lead-end suspension is required for all yarding activities.

H-127 Tailholds on Private Land

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

H-130 Hauling Schedule

The hauling of forest products will not be permitted from November 1 to March 31 unless authorized in writing by the Contract Administrator.

H-140 Special Harvest Requirements

Purchaser shall accomplish the following during the harvest operations:

A. Active Haul Routes will be posted with CB channels by Purchaser.

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

C. All trees 60 inches Diameter at Breast Height (DBH) and greater shall not be felled unless for safety reasons. If trees 60 inches DBH or greater need to be felled for safety reasons, Contract Administrator approval will be required and trees will be left where felled.

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

E. All skid trails used by the 6 wheel drive skidder shall be identified by the Purchaser and approved by the Contract Administrator in writing.

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

G. High stump trees banded in orange paint.

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-240 Lop and Scatter

The tops of all felled trees shall be lopped and slash scattered away from leave trees .

H-250 Additional Falling Requirements

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

Section C: Construction and Maintenance**C-040 Road Plan**

Road construction and associated work provisions of the Road Plan for this sale, dated 6/21/2024 are hereby made a part of this contract.

C-050 Purchaser Road Maintenance and Repair

Purchaser shall perform work at their own expense on RCP-100, RCP-100A, RCP-110, RCP-900, RCP-940, RCP-920, RCP-1000, RCP-1300, RCP-1340, RCP-1350, RCP-1360, SPUR A, SPUR B, and the RCP-1300 EXT roads. All work shall be completed to the specifications detailed in the Road Plan.

C-060 Designated Road Maintainer

If required by the State, Purchaser shall perform maintenance and replacement work as directed by the Contract Administrator on all roads not listed in clause C-050.

Purchaser shall furnish a statement in a form satisfactory to the State showing the costs incurred while performing this work. Costs shall be based on the rates set forth in the equipment rate schedule on file at the Region office or Engineering Division in Olympia. The State shall reimburse Purchaser for said costs within 30 days of receipt and approval of the statement.

C-090 Landing Location

Landings shall be built 50 feet off the RCP Mainline and RCP 100 road(s).

Section S: Site Preparation and Protection**S-001 Emergency Response Plan**

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

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

S-010 Fire Hazardous Conditions

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

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

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

S-030 Landing Debris Clean Up

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

S-035 Logging Debris Clean Up

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

S-050 Cessation of Operations for Low Humidity

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

S-060 Pump Truck or Pump Trailer

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

S-070 Water Supply

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

S-100 Stream Cleanout

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

S-130 Hazardous Materials

a. Hazardous Materials and Waste - Regulatory Compliance

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

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

b. Hazardous Materials Spill Prevention

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

c. Hazardous Materials Spill Containment, Control and Cleanup

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

d. Hazardous Material Release Reporting

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

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

S-131 Refuse Disposal

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

Section D: Damages

D-013 Liquidated Damages or Failure to Perform

The following clauses provide for payments by Purchaser to the State for breaches of the terms of this contract other than failure to perform. These payments are agreed to as liquidated damages and not as penalties. They are reasonable estimates of anticipated harm to the State, which will be caused by Purchaser's breach. These liquidated damages provisions are agreed to by the State and Purchaser with the

understanding of the difficulty of proving loss and the inconvenience or infeasibility of obtaining an adequate remedy. These liquidated damages provisions provide greater certainty for the Purchaser by allowing the Purchaser to better assess its responsibilities under the contract.

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

D-041 Reserve Tree Excessive Damage

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

SIGNATURES

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

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

STATE OF WASHINGTON
DEPARTMENT OF NATURAL RESOURCES

Purchaser

Scott Sargent

Print Name

Pacific Cascade Region Manager

Date: _____

Date: _____

Address: _____

DRAFT

DRAFT

DRAFT

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

STATE OF _____)

COUNTY OF _____)

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

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

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

Notary Public in and for the State of _____

My appointment expires _____

PRE-CRUISE NARRATIVE

Sale Name: Dodge City	Region: Pacific Cascade
Agreement #: 30-107463	District: Lewis
Contact Forester: Coleman Carle Phone / Location: 360 821-6964	County(s): Pacific
Alternate Contact: Roy Franklin Phone / Location: 360 520-1971	Other information:

Type of Sale: Lump Sum	
Harvest System: Ground based	70
Harvest System: Uphill Cable	30

UNIT ACREAGES AND METHOD OF DETERMINATION:

Unit # Harvest R/W or RMZ WMZ	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 3 T12N R06W Sec 34 T13N R06W	1,3	142	47	7	1	0	87	GPS (Trimble)
2	Sec 35 T13N R06W	1	102	34	6	1	0	61	GPS (Trimble)
3	Sec 25 T13N R06W Sec 26 T13N R06W Sec 36 T13N R06W	2,3	66	20	6	1	0	39	GPS (Trimble)
4 ROW	Sec 35 T13N R06W	1	1	0	0	0	0	1	GPS (Trimble)
TOTAL ACRES			311	101	19	3	0	188	

HARVEST PLAN AND SPECIAL CONDITIONS:

Unit #	Harvest Prescription: (Leave, take, paint color, tags, flagging etc.)	Special Management areas:	Other conditions (# leave trees, etc.)
1	Variable retention harvest; Boundaries are marked with white "Timber Sale Boundary"	NA	8 Leave trees per acre marked

	tags and pink “Harvest Boundary” flagging. Clumped leave trees are marked with yellow “Leave Tree Area” tags, pink “Harvest Boundary” flagging, and blue paint. Individual trees are marked with blue paint.		primarily in clumps.
2	Variable retention harvest; Boundaries are marked with white “Timber Sale Boundary” tags and pink “Harvest Boundary” flagging. Clumped leave trees are marked with yellow “Leave Tree Area” tags, pink “Harvest Boundary” flagging, and blue paint. Individual trees are marked with blue paint.	NA	8 Leave trees per acre marked primarily in clumps.
3	Variable retention harvest; Boundaries are marked with white “Timber Sale Boundary” tags and pink “Harvest Boundary” flagging. Clumped leave trees are marked with yellow “Leave Tree Area” tags, pink “Harvest Boundary” flagging, and blue paint. Individual trees are marked with blue paint.	NA	8 Leave trees per acre marked primarily in clumps.
4 ROW	ROW is marked with Orange “Right-Of-Way Boundary” Tags and Orange Flagging.	NA	NA

OTHER PRE-CRUISE INFORMATION:

Unit #	Primary,secondary Species / Estimated Volume (MBF)	Access information (Gates, locks, etc.)	Photos, traverse maps required
1	2,000 mbf	See driving map	Maps on the TSDC
2	1,500 mbf	See driving map	Maps on the TSDC

3	1,000 mbf	See driving map	Maps on the TSDC
4 ROW	10 mbf	See driving map	Maps on the TSDC
TOTAL MBF	4,510 mbf		

REMARKS:

All units are 40-45 yrs old and were thinned in 2010
--

Prepared By: Coleman Carle Date: 5/20/2024	Title: Forester	CC:
---	------------------------	------------

Timber Sale Cruise Report
Dodge City

Sale Name: DODGE CITY
Sale Type: LUMP SUM
Region: PACIFIC CASC
District: LEWIS
Lead Cruiser: Dylan Buchanan
Other Cruisers:Blake Warnstadt, Dillon Adair

Cruise Narrative:
Location: Dodge City can be accessed off of the RCP mainline which is located 22 miles east of Raymond on highway 6. turn north on to the RCP Mainline. Continue on for 1.0 mile and turn left on to the RCP-100 to arrive at Unit 1. Continue on the RCP Mainline for 1.4 miles and turn left on to the RCP-900 to arrive at Unit 2. Continue on the RCP Mainline for 1.7 miles to arrive at Unit 3.

Cruise Design: Units 1, 2 and 3 were cruised using variable radius plots. Units 1 and 2 were measured with a measure to count plot ratio of 1:2 using a 40.00 BAF sighted at 4.5 feet, while unit 3 was 1:1 measure to count plot ratio using a 54.44 BAF sighted at 4.5 feet. Unit 4 right of way was cruised using 1/20 acre fixed radius plots. Boles were measured at a fixed break point of 40% or up to fixed diameter of 5 inches. Preferred log lengths are 40' for conifers and 30' for hardwoods.

Timber Quality: Dodge City is a Douglas fir dominant timber sale with a small amount of western hemlock and red alder, and a trace amount of maple. The DF is comprised of mostly Domestic logs with some High Quality B and a small amount of High Quality A logs available.
Boles are mostly straight with frequent spike knots and a moderate amount of top storm damage with regenerated tops. Units 1 and 2 have been thinned previously. There is a small amount of mechanical damage scaring from thinning. Unit 2 has a small amount of conks on life DF stems. Average DBH for the timber sale is DF 17.6", WH is 17.9", RA is 13.9" and maple is 13". Observed a small amount of root disease in unit 3 with few small open mortality pockets.

Logging and Stand Conditions: The Dodge City sale has moderate to gentle slopes and is estimated to be 70% ground based logging and 30% uphill cable. The previously thinned units 1 and 2 have heavy veg cover throughout.

General Remarks:

Timber Sale Notice Volume (MBF)

Sp	DBH	Rings/In	Age	MBF Volume by Grade				
				All	2 Saw	3 Saw	4 Saw	Utility
DF	17.6	7.0		4,492	2,081	2,005	380	26
WH	17.9			76	47	22	7	
RA	13.9			73	14	17	42	
MA	13.0			6		3	4	
ALL	17.1	7.0		4,648	2,142	2,047	433	26

Timber Sale Notice Weight (tons)

Sp	Tons by Grade				
	All	2 Saw	3 Saw	4 Saw	Utility
DF	37,806	16,100	17,717	3,796	193
WH	770	387	261	122	
RA	617	106	137	375	
MA	74		15	58	
ALL	39,267	16,593	18,130	4,351	193

Timber Sale Overall Cruise Statistics

BA (sq ft/acre)	BA SE (%)	V-BAR (bf/sq ft)	V-BAR SE (%)	Net Vol (bf/acre)	Vol SE (%)
194.4	3.3	128.3	1.4	24,722	3.6

Timber Sale Unit Cruise Design

Unit	Design	Cruise Acres	FMA Acres	N Plots	N Cruise Plots	N Void Plots
DODGE CITY U1	B1C: VR, 1 BAF (40) Measure/Count Plots, Sighting Ht = 4.5 ft	87.0	94.9	85	30	0
DODGE CITY U2	B1C: VR, 1 BAF (40) Measure/Count Plots, Sighting Ht = 4.5 ft	61.0	68.4	66	25	2
DODGE CITY U3	B1C: VR, 1 BAF (54.44) Measure/ Count Plots, Sighting Ht = 4.5 ft	39.0	45.6	39	20	1
DODGE CITY U4	FX: FR plots (20 tree / acre expansion)	1.0	0.2	2	2	0
All		188.0	209.0	192	77	3

Timber Sale Log Grade x Sort Summary

Sp	Status	Grade	Sort	Dia	Len	BF Gross	BF Net	Defect %	Tons	MBF Net
DF	LIVE	2 SAW	Domestic	13.9	40	9,003	8,377	7.0	12,319.3	1,574.9
DF	LIVE	2 SAW	HQ-A	13.4	40	1,548	1,514	2.2	2,155.9	284.7
DF	LIVE	2 SAW	HQ-B	13.9	40	1,194	1,177	1.4	1,625.3	221.3
DF	LIVE	3 SAW	Domestic	8.6	39	9,995	9,397	6.0	15,946.0	1,766.6
DF	LIVE	3 SAW	HQ-B	10.0	40	1,298	1,267	2.3	1,771.0	238.3
DF	LIVE	4 SAW	Domestic	5.5	29	2,177	2,022	7.1	3,796.1	380.2
DF	LIVE	CULL	Cull	6.1	6	202	0	100.0	0.0	0.0
DF	LIVE	UTILITY	Pulp	6.4	15	139	138	0.8	192.8	25.9
MA	LIVE	3 SAW	Domestic	10.0	18	15	14	6.3	15.3	2.7

Sp	Status	Grade	Sort	Dia	Len	BF Gross	BF Net	Defect %	Tons	MBF Net
MA	LIVE	4 SAW	Domestic	5.0	32	24	20	16.4	58.3	3.8
RA	LIVE	2 SAW	Domestic	13.0	30	82	75	8.3	105.7	14.2
RA	LIVE	3 SAW	Domestic	10.9	32	93	90	3.1	136.6	16.9
RA	LIVE	4 SAW	Domestic	6.1	29	235	223	5.0	374.9	41.9
RA	LIVE	CULL	Cull	12.9	8	14	0	100.0	0.0	0.0
WH	LIVE	2 SAW	Domestic	15.7	40	271	250	8.0	386.8	46.9
WH	LIVE	3 SAW	Domestic	8.6	39	124	119	4.1	261.4	22.3
WH	LIVE	4 SAW	Domestic	5.6	33	46	38	15.6	121.5	7.2
WH	LIVE	CULL	Cull	6.0	4	3	0	100.0	0.0	0.0

Timber Sale Log Sort x Diameter Bin Summary

Sp	Bin	Status	Sort	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	5 - 7	LIVE	Cull	6.0	6	0	100.0	0.0	0.0
DF	5 - 7	LIVE	Domestic	6.0	33	4,557	4.9	8,601.4	856.7
DF	5 - 7	LIVE	Pulp	6.2	17	120	0.9	166.9	22.6
DF	8 - 11	LIVE	Cull	9.0	11	0	100.0	0.0	0.0
DF	8 - 11	LIVE	Pulp	9.2	14	17	0.0	25.9	3.2
DF	8 - 11	LIVE	Domestic	9.8	39	6,839	6.7	11,060.7	1,285.8
DF	8 - 11	LIVE	HQ-B	10.1	40	1,267	2.3	1,771.0	238.3
DF	12 - 15	LIVE	HQ-A	13.4	40	1,514	2.2	2,155.9	284.7
DF	12 - 15	LIVE	HQ-B	13.4	40	1,025	1.4	1,432.8	192.6
DF	12 - 15	LIVE	Domestic	13.5	40	6,955	7.7	10,585.0	1,307.6
DF	16+	LIVE	Domestic	17.0	40	1,445	4.7	1,814.3	271.6
DF	16+	LIVE	HQ-B	17.0	40	153	1.3	192.5	28.7
MA	5 - 7	LIVE	Domestic	5.0	32	20	16.4	58.3	3.8
MA	8 - 11	LIVE	Domestic	10.0	18	14	6.3	15.3	2.7
RA	5 - 7	LIVE	Domestic	5.2	27	144	5.3	246.0	27.1
RA	8 - 11	LIVE	Cull	10.0	5	0	100.0	0.0	0.0
RA	8 - 11	LIVE	Domestic	10.0	31	155	3.0	244.3	29.1
RA	12 - 15	LIVE	Domestic	13.1	29	89	8.9	126.8	16.7
RA	16+	LIVE	Cull	16.9	12	0	100.0	0.0	0.0
WH	5 - 7	LIVE	Cull	5.3	4	0	100.0	0.0	0.0
WH	5 - 7	LIVE	Domestic	6.0	34	76	11.2	223.9	14.3
WH	8 - 11	LIVE	Cull	8.9	4	0	100.0	0.0	0.0
WH	8 - 11	LIVE	Domestic	10.3	40	81	3.1	159.0	15.3
WH	12 - 15	LIVE	Domestic	13.6	40	130	10.4	233.7	24.4
WH	16+	LIVE	Domestic	20.9	40	120	5.2	153.2	22.6

Cruise Unit Report

DODGE CITY U1

Unit Sale Notice Volume (MBF): DODGE CITY U1

Sp	DBH	Rings/In	Age	MBF Volume by Grade				Utility
				All	2 Saw	3 Saw	4 Saw	
DF	17.5			1,995	917	906	165	8
RA	14.7			64	14	17	33	
WH	17.6			18	11	4	2	
MA	13.0			6		3	4	
ALL	16.9			2,084	942	929	204	8

Unit Cruise Design: DODGE CITY U1

Design	Cruise Acres	FMA Acres	N Plots	N Cruise Plots	N Void Plots
B1C: VR, 1 BAF (40) Measure/Count Plots, Sighting Ht = 4.5 ft	87.0	94.9	85	30	0

Unit Cruise Summary: DODGE CITY U1

Sp	Cruised Trees	All Trees	Trees/Plot	Ring-Count Trees
DF	127	383	4.5	0
RA	17	17	0.2	0
WH	3	3	0.0	0
MA	4	4	0.0	0
ALL	151	407	4.8	0

Unit Cruise Statistics: DODGE CITY U1

Sp	BA (sq ft/acre)	BA CV (%)	BA SE (%)	V-BAR (bf/sq ft)	V-BAR CV (%)	V-BAR SE (%)	Net Vol (bf/acre)	Vol CV (%)	Vol SE (%)
DF	180.2	52.2	5.7	127.2	21.1	1.9	22,934	56.3	6.0
RA	8.0	351.9	38.2	92.3	31.5	7.6	739	353.3	38.9
WH	1.4	525.9	57.0	144.4	80.8	46.7	204	532.1	73.7
MA	1.9	726.3	78.8	39.4	53.3	26.6	74	728.2	83.2
ALL	191.5	46.8	5.1	125.1	27.9	2.3	23,951	54.5	5.6

Unit Summary: DODGE CITY U1

Sp	Status	Rx	N	D	DBH	BL	THT	BF Gross	BF Net	Defect %	TPA	BA	RD	MBF Net
DF	LIVE	CUT	127	ALL	17.5	75	97	24,677	22,934	7.1	107.9	180.2	43.1	1,995.3
MA	LIVE	CUT	4	ALL	13.0	29	41	85	74	12.5	2.0	1.9	0.5	6.5
RA	LIVE	CUT	17	ALL	14.7	55	72	816	739	9.4	6.8	8.0	2.1	64.3
WH	LIVE	CUT	3	ALL	17.6	59	74	223	204	8.4	0.8	1.4	0.3	17.7
ALL	LIVE	CUT	151	ALL	17.3	73	94	25,800	23,951	7.2	117.5	191.5	46.0	2,083.7
ALL	ALL	ALL	151	ALL	17.3	73	94	25,800	23,951	7.2	117.5	191.5	46.0	2,083.7

Cruise Unit Report

DODGE CITY U2

Unit Sale Notice Volume (MBF): DODGE CITY U2

Sp	DBH	Rings/In	Age	MBF Volume by Grade				
				All	2 Saw	3 Saw	4 Saw	Utility
DF	18.7	7.0		1,233	687	465	73	8
WH	18.7			43	30	9	3	
RA	8.0			4			4	
ALL	18.0	7.0		1,280	718	474	80	8

Unit Cruise Design: DODGE CITY U2

Design	Cruise Acres	FMA Acres	N Plots	N Cruise Plots	N Void Plots
B1C: VR, 1 BAF (40) Measure/Count Plots, Sighting Ht = 4.5 ft	61.0	68.3	66	25	2

Unit Cruise Summary: DODGE CITY U2

Sp	Cruised Trees	All Trees	Trees/Plot	Ring-Count Trees
DF	92	240	3.6	1
WH	9	11	0.2	0
RA	2	2	0.0	0
ALL	103	253	3.8	1

Unit Cruise Statistics: DODGE CITY U2

Sp	BA (sq ft/acre)	BA CV (%)	BA SE (%)	V-BAR (bf/sq ft)	V-BAR CV (%)	V-BAR SE (%)	Net Vol (bf/acre)	Vol CV (%)	Vol SE (%)
DF	145.5	49.3	6.1	139.0	19.7	2.1	20,215	53.1	6.4
WH	6.7	289.8	35.7	104.7	51.3	17.1	698	294.3	39.6
RA	1.2	570.0	70.2	60.2	26.9	19.0	73	570.7	72.7
ALL	153.3	43.8	5.4	136.9	24.3	2.4	20,986	50.1	5.9

Unit Summary: DODGE CITY U2

Sp	Status	Rx	N	D	DBH	BL	THT	BF Gross	BF Net	Defect %	TPA	BA	RD	MBF Net
DF	LIVE	CUT	92	ALL	18.7	80	103	21,314	20,215	5.2	76.3	145.5	33.6	1,233.1
RA	LIVE	CUT	2	ALL	8.0	21	28	73	73	0.0	3.5	1.2	0.4	4.4

Sp	Status	Rx	N	D	DBH	BL	THT	BF Gross	BF Net	Defect %	TPA	BA	RD	MBF Net
WH	LIVE	CUT	9	ALL	18.7	59	73	758	698	7.9	3.5	6.7	1.5	42.6
ALL	LIVE	CUT	103	ALL	18.4	76	98	22,144	20,986	5.2	83.3	153.3	35.6	1,280.1
ALL	ALL	ALL	103	ALL	18.4	76	98	22,144	20,986	5.2	83.3	153.3	35.6	1,280.1

Cruise Unit Report

DODGE CITY U3

Unit Sale Notice Volume (MBF): DODGE CITY U3

Sp	DBH	Rings/In	Age	MBF Volume by Grade				
				All	2 Saw	3 Saw	4 Saw	Utility
DF	16.5	7.0		1,232	454	626	142	10
WH	16.3			16	5	9	2	
RA	8.0			4			4	
ALL	16.2	7.0		1,253	459	636	148	10

Unit Cruise Design: DODGE CITY U3

Design	Cruise Acres	FMA Acres	N Plots	N Cruise Plots	N Void Plots
B1C: VR, 1 BAF (54.44) Measure/Count Plots, Sighting Ht = 4.5 ft	39.0	45.6	39	20	1

Unit Cruise Summary: DODGE CITY U3

Sp	Cruised Trees	All Trees	Trees/Plot	Ring-Count Trees
DF	95	186	4.8	1
WH	3	3	0.1	0
RA	1	1	0.0	0
ALL	99	190	4.9	1

Unit Cruise Statistics: DODGE CITY U3

Sp	BA (sq ft/acre)	BA CV (%)	BA SE (%)	V-BAR (bf/sq ft)	V-BAR CV (%)	V-BAR SE (%)	Net Vol (bf/acre)	Vol CV (%)	Vol SE (%)
DF	259.6	46.0	7.4	121.7	16.4	1.7	31,596	48.8	7.6
WH	4.2	460.5	73.7	99.1	29.8	17.2	415	461.5	75.7
RA	1.4	624.5	100.0	77.3	0.0	0.0	108	624.5	100.0
ALL	265.2	42.9	6.9	121.1	17.2	1.7	32,119	46.3	7.1

Unit Summary: DODGE CITY U3

Sp	Status	Rx	N	D	DBH	BL	THT	BF Gross	BF Net	Defect %	TPA	BA	RD	MBF Net
DF	LIVE	CUT	95	ALL	16.5	73	97	33,967	31,596	7.0	174.9	259.6	63.9	1,232.3
RA	LIVE	CUT	1	ALL	8.0	34	40	108	108	0.0	4.0	1.4	0.5	4.2

Sp	Status	Rx	N	D	DBH	BL	THT	BF Gross	BF Net	Defect %	TPA	BA	RD	MBF Net
WH	LIVE	CUT	3	ALL	16.3	56	70	458	415	9.4	2.9	4.2	1.0	16.2
ALL	LIVE	CUT	99	ALL	16.4	72	95	34,534	32,119	7.0	181.8	265.2	65.4	1,252.7
ALL	ALL	ALL	99	ALL	16.4	72	95	34,534	32,119	7.0	181.8	265.2	65.4	1,252.7

Cruise Unit Report

DODGE CITY U4

Unit Sale Notice Volume (MBF): DODGE CITY U4

Sp	DBH	Rings/In	Age	MBF Volume by Grade			
				All	2 Saw	3 Saw	4 Saw
DF	22.7			31	23	8	1
ALL	22.7			31	23	8	1

Unit Cruise Design: DODGE CITY U4

Design	Cruise Acres	FMA Acres	N Plots	N Cruise Plots	N Void Plots
FX: FR plots (20 tree / acre expansion)	1.0	0.2	2	2	0

Unit Cruise Summary: DODGE CITY U4

Sp	Cruised Trees	All Trees	Trees/Plot	Ring-Count Trees
DF	7	7	3.5	0
ALL	7	7	3.5	0

Unit Cruise Statistics: DODGE CITY U4

Sp	BA (sq ft/acre)	BA CV (%)	BA SE (%)	V-BAR (bf/sq ft)	V-BAR CV (%)	V-BAR SE (%)	Net Vol (bf/acre)	Vol CV (%)	Vol SE (%)
DF	196.1	75.3	53.2	159.0	20.9	7.9	31,180	78.1	53.8
ALL	196.1	75.3	53.2	159.0	20.9	7.9	31,180	78.1	53.8

Unit Summary: DODGE CITY U4

Sp	Status	Rx	N	D	DBH	BL	THT	BF Gross	BF Net	Defect %	TPA	BA	RD	MBF Net
DF	LIVE	CUT	7	ALL	22.7	88	111	32,470	31,180	4.0	69.8	196.1	41.2	31.2
ALL	LIVE	CUT	7	ALL	22.7	88	111	32,470	31,180	4.0	69.8	196.1	41.2	31.2
ALL	ALL	ALL	7	ALL	22.7	88	111	32,470	31,180	4.0	69.8	196.1	41.2	31.2



Forest Practices Application/Notification Notice of Decision

FPA/N No: 2942784

Effective Date: 9/26/2024

Expiration Date: 9/26/2027

Shut Down Zone: 651N

EARR Tax Credit: ☒ Eligible ☐ Non-eligible

Reference: Dodge City TBS

30-107463

Decision

- ☐ **Notification Accepted** Operations shall not begin before the effective date.
- ☒ **Approved** This Forest Practices Application is subject to the conditions listed below.
- ☐ **Disapproved** This Forest Practices Application is disapproved for the reasons listed below.
- ☐ **Withdrawn** Applicant has withdrawn the Forest Practices Application/Notification (FPA/N).
- ☐ **Closed** All forest practices obligations are met.

FPA/N Classification

☐ Class II ☒ Class III ☐ Class IVG ☐ Class IVS

Number of Years Granted on Multi-Year Request

☐ 4 years ☐ 5 years

Conditions on Approval/Reasons for Disapproval

No additional conditions.

Issued By: Brooke Acosta

Region: Pacific Cascade Region

Title: Forest Practices Forester

Date: 9/26/2024

Copies to: ☐ Landowner, Timber Owner, and Operator

Issued in person: ☒ LO ☒ TO ☒ OP

By:

Lucy Spahr

Date:

9/26/2024

Appeal Information

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

You must file your appeal at all three addresses below:

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

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

Other Applicable Laws

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

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

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

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

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

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

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

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

DNR Declaration of Mailing

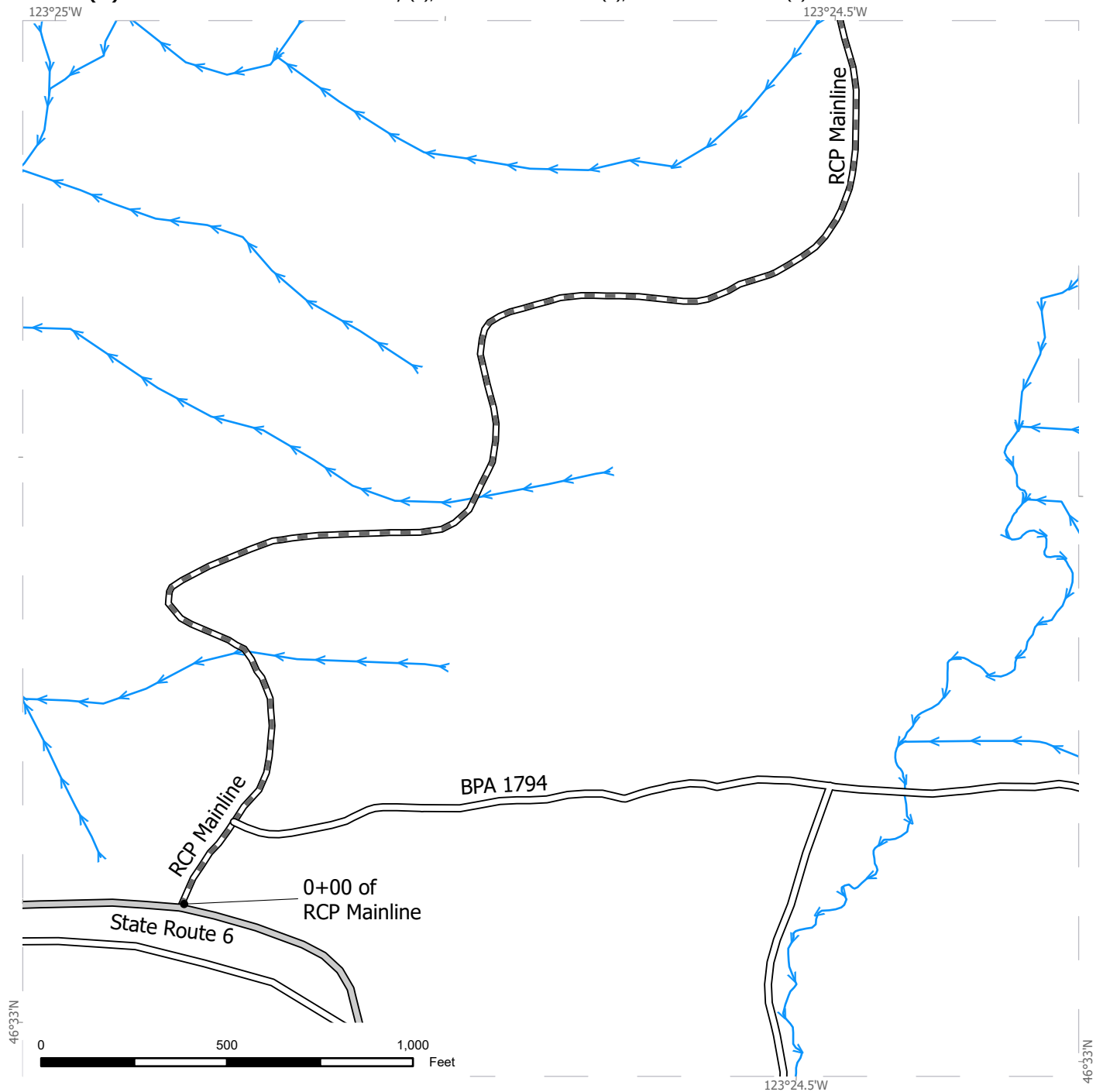
I _____ caused the Notice of Decision for FPA/N No. _____ to be placed in the United States mail at Castle Rock, WA, postage paid. I declare under penalty of perjury of the laws of the State of Washington, that the foregoing is true and correct.

(Date) Castle Rock, WA
(City & State where signed) _____
(Signature)

ROAD PLAN MAP

SALE NAME: DODGE CITY
AGREEMENT#: 30-107463
TOWNSHIP(S): T12R6W, T13R6W
TRUST(S): Common School and Indemnity (3), State Forest Purchase (2), State Forest Transfer (1)

REGION: Pacific Cascade Region
COUNTY(S): Pacific
ELEVATION RGE: 680-1160



- County Road
- Existing Roads
- Required Pre-Haul Maintenance

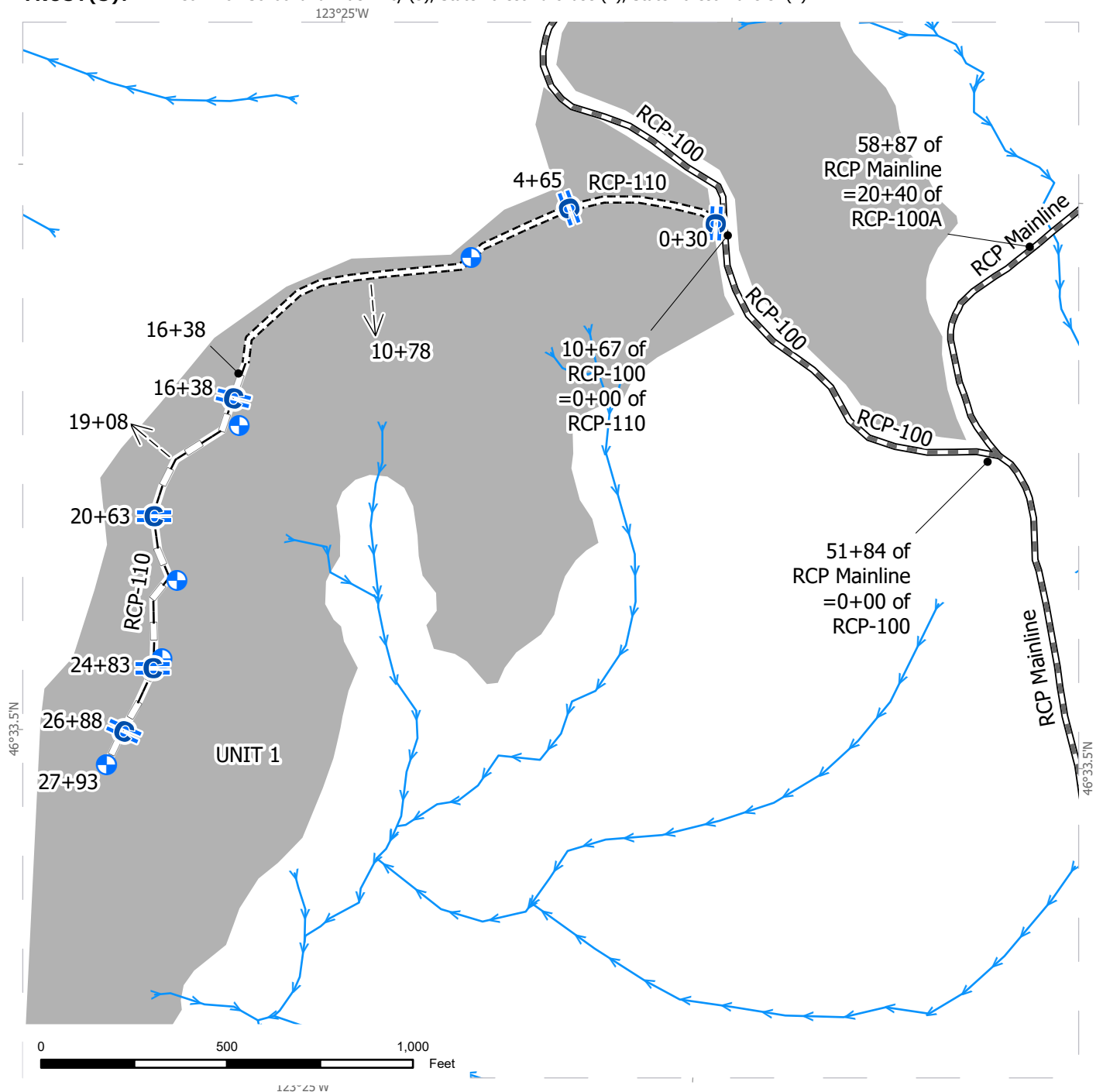
Streams



ROAD PLAN MAP

SALE NAME: DODGE CITY
AGREEMENT#: 30-107463
TOWNSHIP(S): T12R6W, T13R6W
TRUST(S): Common School and Indemnity (3), State Forest Purchase (2), State Forest Transfer (1)

REGION: Pacific Cascade Region
COUNTY(S): Pacific
ELEVATION RGE: 680-1160

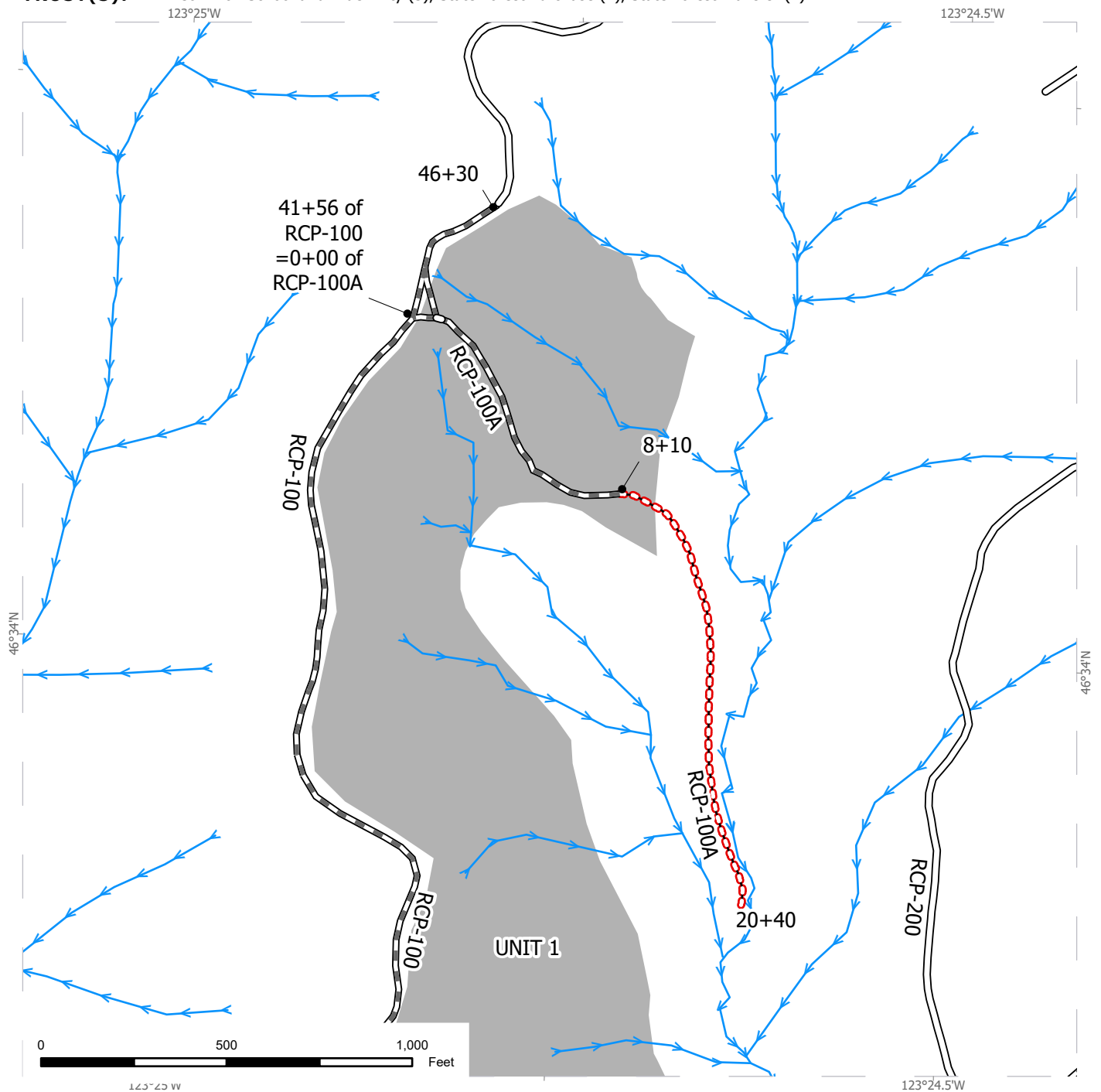


- | | | |
|-------------------------------|---------------------|--------------|
| Existing Roads | Cross-drain Culvert | Harvest Unit |
| Required Pre-Haul Maintenance | Ditchout | Streams |
| Required Construction | Landing - Proposed | |
| Optional Reconstruction | | |

ROAD PLAN MAP

SALE NAME: DODGE CITY
AGREEMENT#: 30-107463
TOWNSHIP(S): T12R6W, T13R6W
TRUST(S): Common School and Indemnity (3), State Forest Purchase (2), State Forest Transfer (1)

REGION: Pacific Cascade Region
COUNTY(S): Pacific
ELEVATION RGE: 680-1160



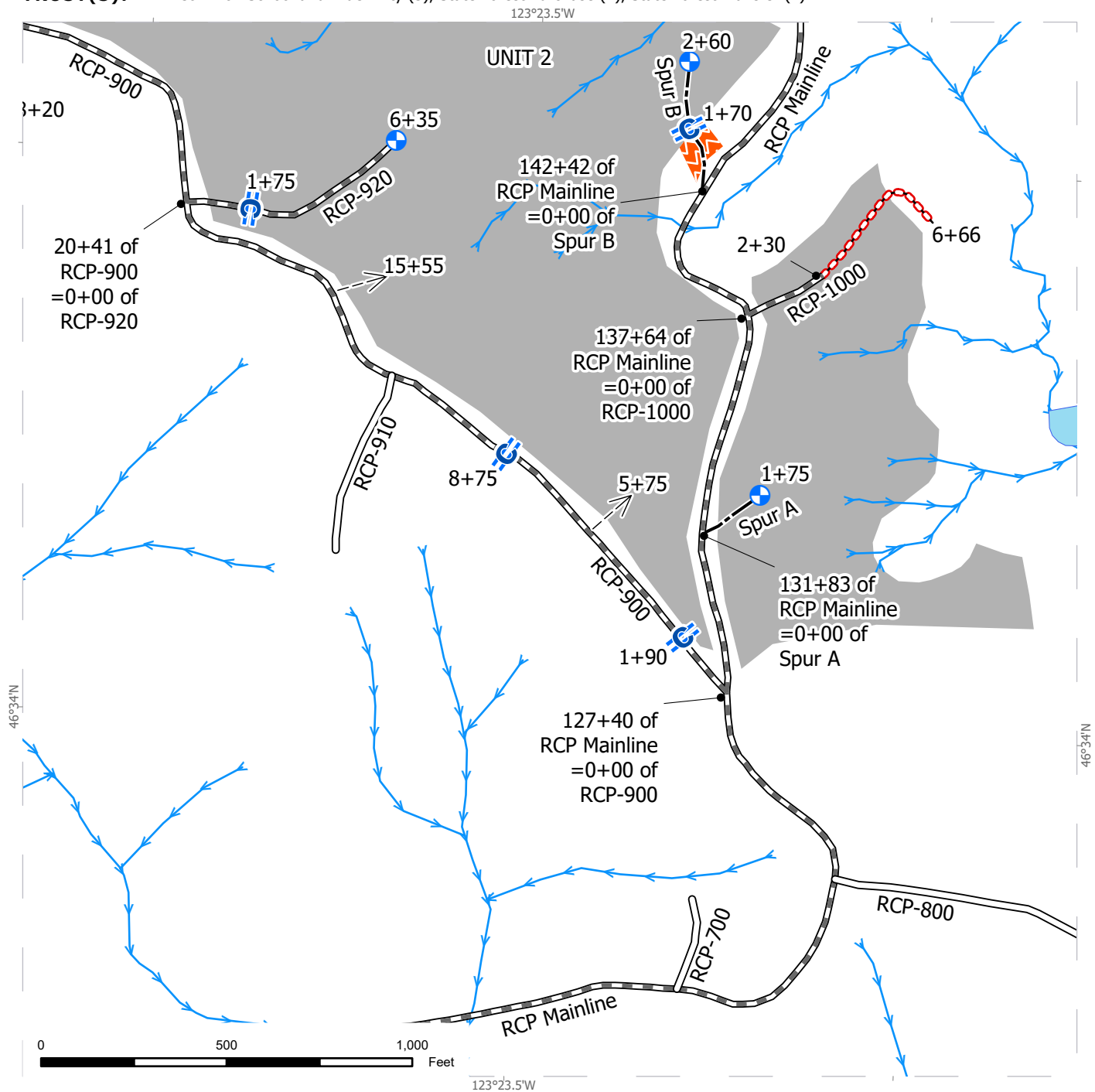
- | | |
|-------------------------------|--------------|
| Existing Roads | Harvest Unit |
| Required Pre-Haul Maintenance | Streams |
| Required Abandonment | |



ROAD PLAN MAP

SALE NAME: DODGE CITY
AGREEMENT#: 30-107463
TOWNSHIP(S): T12R6W, T13R6W
TRUST(S): Common School and Indemnity (3), State Forest Purchase (2), State Forest Transfer (1)

REGION: Pacific Cascade Region
COUNTY(S): Pacific
ELEVATION RGE: 680-1160



- | | | |
|-------------------------------|---------------------|----------------------|
| Existing Roads | Cross-drain Culvert | Harvest Unit |
| Required Pre-Haul Maintenance | Ditchout | Right-of-Way Harvest |
| Optional Construction | Landing - Proposed | Streams |
| Required Abandonment | | |

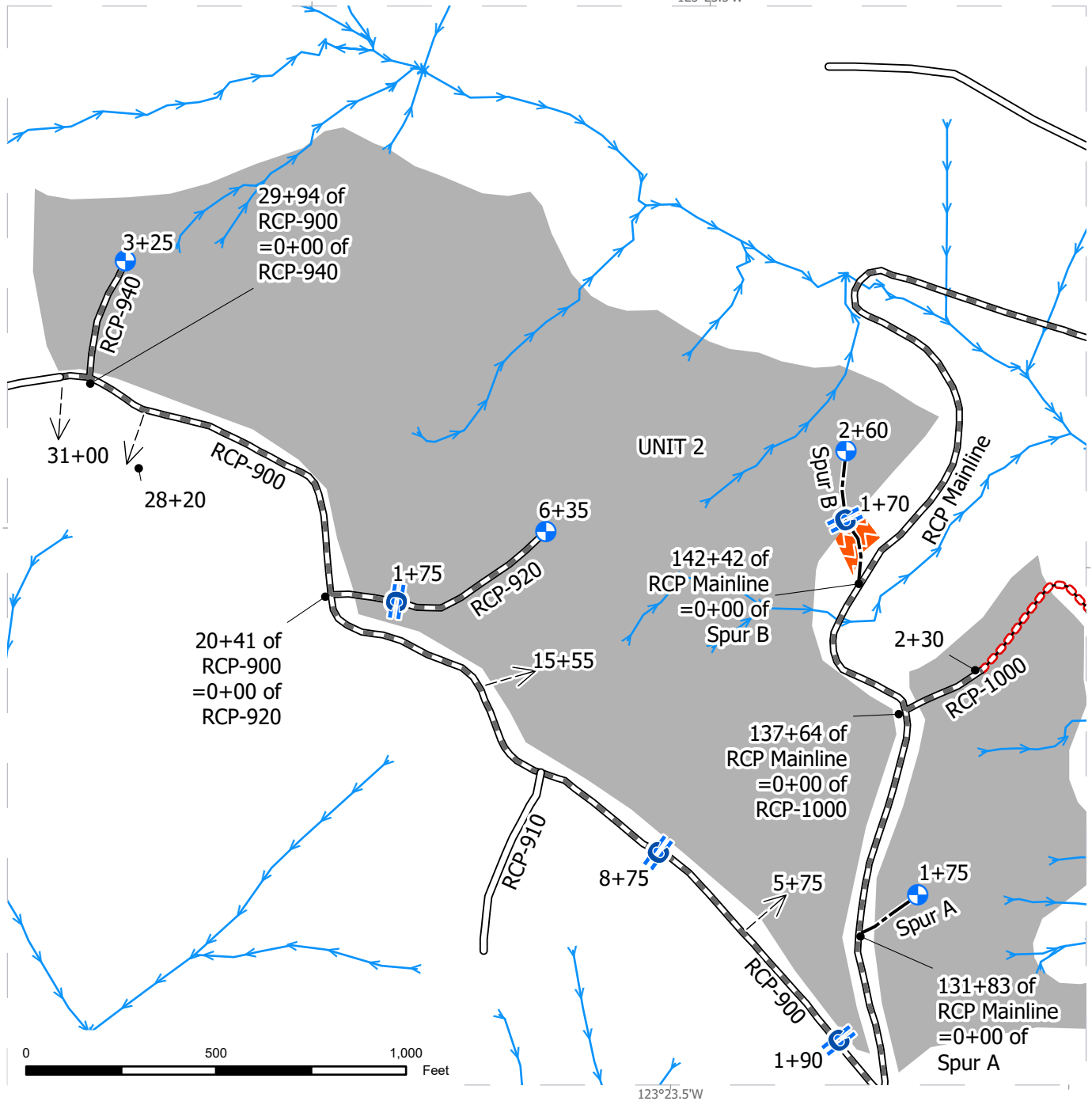


ROAD PLAN MAP

SALE NAME: DODGE CITY
AGREEMENT#: 30-107463
TOWNSHIP(S): T12R6W, T13R6W
TRUST(S): Common School and Indemnity (3), State Forest Purchase (2), State Forest Transfer (1)

REGION: Pacific Cascade Region
COUNTY(S): Pacific
ELEVATION RGE: 680-1160

123°23.5'W

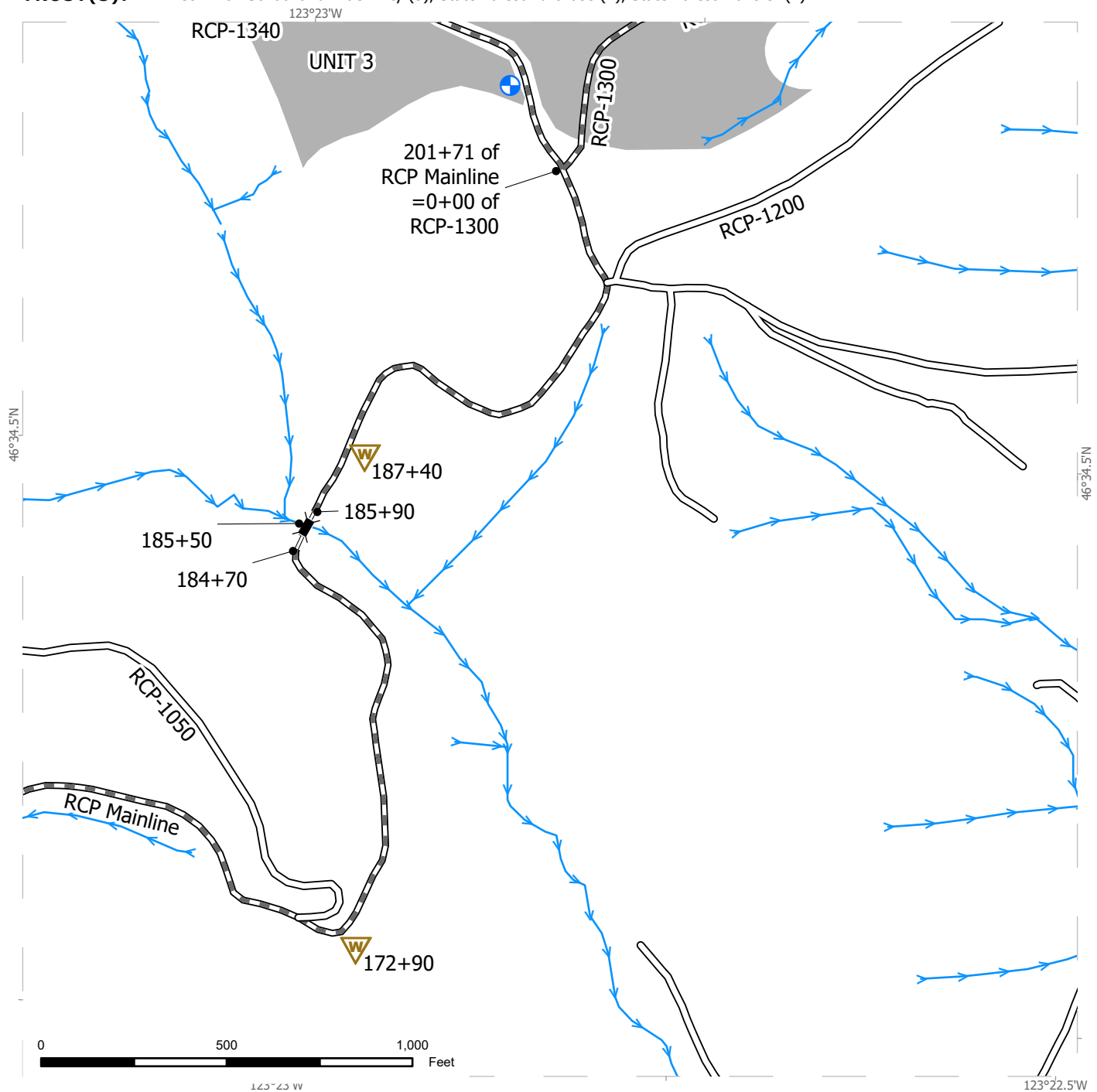


- | | | |
|-------------------------------|---------------------|----------------------|
| Existing Roads | Cross-drain Culvert | Harvest Unit |
| Required Pre-Haul Maintenance | Ditchout | Right-of-Way Harvest |
| Optional Construction | Landing - Proposed | Streams |
| Required Abandonment | | |

ROAD PLAN MAP

SALE NAME: DODGE CITY
AGREEMENT#: 30-107463
TOWNSHIP(S): T12R6W, T13R6W
TRUST(S): Common School and Indemnity (3), State Forest Purchase (2), State Forest Transfer (1)

REGION: Pacific Cascade Region
COUNTY(S): Pacific
ELEVATION RGE: 680-1160



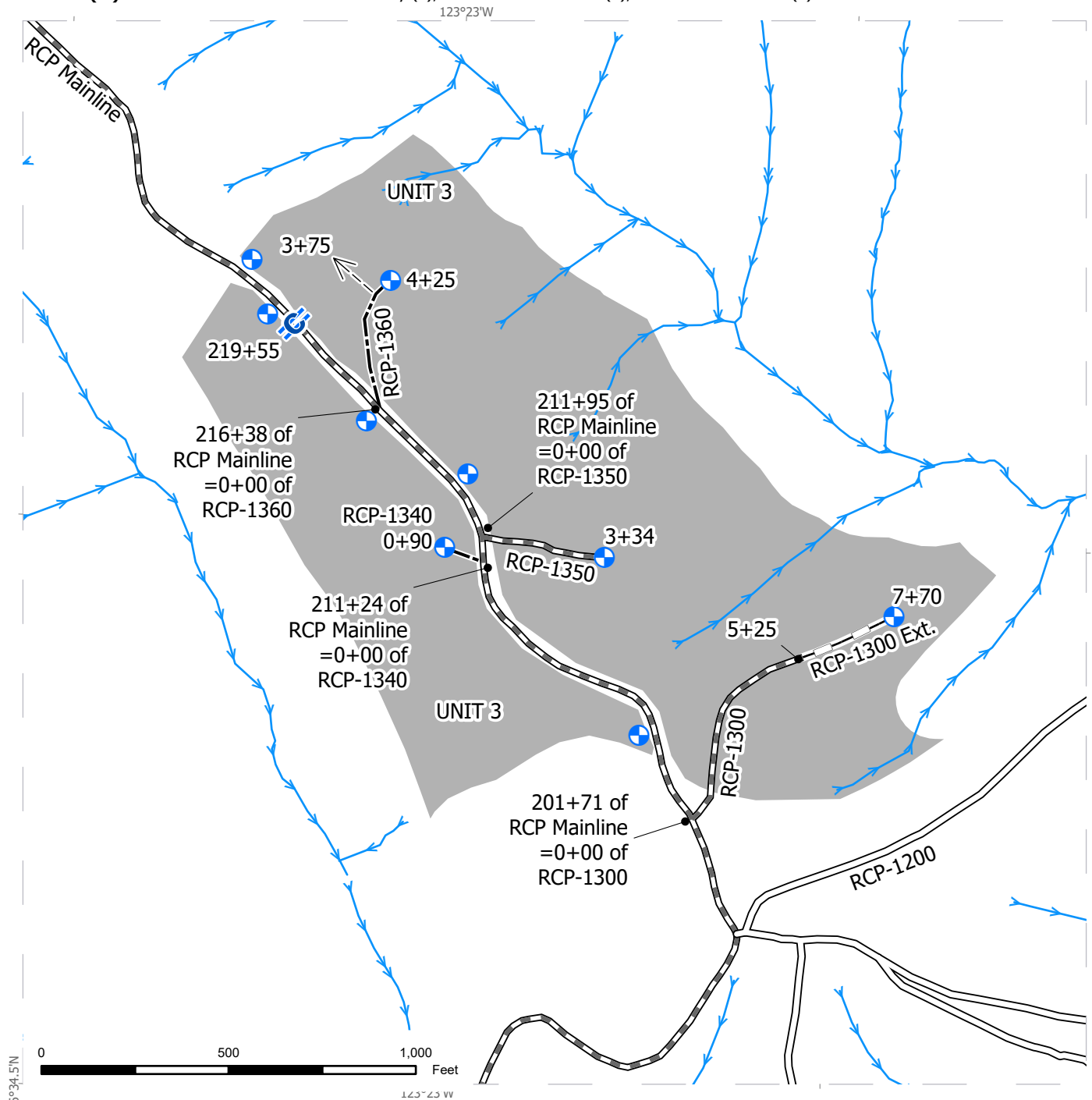
- | | | |
|-------------------------------|--------------------|--------------|
| Existing Roads | Bridge | Harvest Unit |
| Required Pre-Haul Maintenance | Landing - Proposed | Streams |
| Required Reconstruction | Waste Area | |
| Optional Reconstruction | | |



ROAD PLAN MAP

SALE NAME: DODGE CITY
AGREEMENT#: 30-107463
TOWNSHIP(S): T12R6W, T13R6W
TRUST(S): Common School and Indemnity (3), State Forest Purchase (2), State Forest Transfer (1)

REGION: Pacific Cascade Region
COUNTY(S): Pacific
ELEVATION RGE: 680-1160



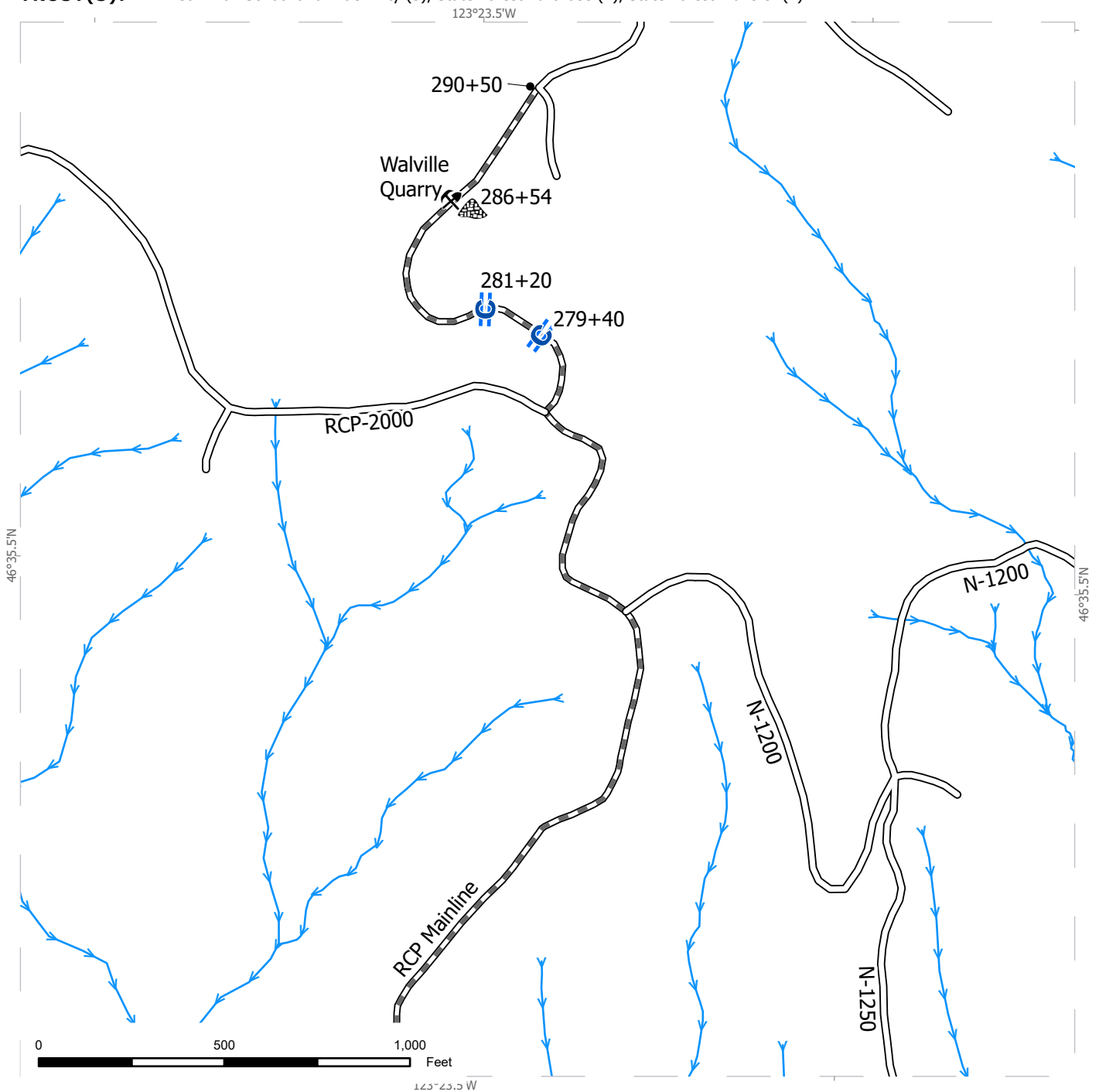
- | | | |
|-------------------------------|---------------------|--------------|
| Existing Roads | Cross-drain Culvert | Harvest Unit |
| Required Pre-Haul Maintenance | Ditchout | Streams |
| Optional Construction | Landing - Proposed | |
| Optional Reconstruction | | |



ROAD PLAN MAP

SALE NAME: DODGE CITY
AGREEMENT#: 30-107463
TOWNSHIP(S): T12R6W, T13R6W
TRUST(S): Common School and Indemnity (3), State Forest Purchase (2), State Forest Transfer (1)

REGION: Pacific Cascade Region
COUNTY(S): Pacific
ELEVATION RGE: 680-1160



- | | | |
|-------------------------------|---------------------|---------|
| Existing Roads | Cross-drain Culvert | Streams |
| Required Pre-Haul Maintenance | Rock Pit | |
| | Stockpile | |



STATE OF WASHINGTON
DEPARTMENT OF NATURAL RESOURCES

DODGE CITY TIMBER SALE ROAD PLAN
LEWIS COUNTY
LEWIS DISTRICT
PACIFIC CASCADE REGION

AGREEMENT NO.: 30-107463

STAFF ENGINEER: GRANT GERRITSEN

DRAWN & COMPILED BY: ALICIA COMPTON

SECTION 0 – SCOPE OF PROJECT

0-1 ROAD PLAN SCOPE

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

0-2 REQUIRED ROADS

The specified work on the following roads is required.

<u>Road</u>	<u>Stations</u>	<u>Type</u>
RCP-Mainline	0+00 to 184+70	Pre-Haul Maintenance
	184+70 to 185+90	Reconstruction
	185+90 to 290+50	Pre-Haul Maintenance
RCP-100	0+00 to 46+30	Pre-Haul Maintenance
RCP-100A	0+00 to 8+10	Pre-Haul Maintenance
	8+10 to 20+40	Abandonment
RCP-110	0+00 to 16+38	Construction
RCP-900	0+00 to 31+00	Pre-Haul Maintenance
RCP-920	0+00 to 6+35	Pre-Haul Maintenance
RCP-940	0+00 to 3+25	Pre-Haul Maintenance
RCP-1000	0+00 to 2+30	Pre-Haul Maintenance
	2+30 to 6+66	Abandonment
RCP-1300	0+00 to 5+25	Pre-Haul Maintenance
RCP-1350	0+00 to 3+34	Pre-Haul Maintenance

0-3 OPTIONAL ROADS

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

<u>Road</u>	<u>Stations</u>	<u>Type</u>
Spur A	0+00 to 1+75	Construction
Spur B	0+00 to 2+60	Construction
RCP-110	16+38 to 27+93	Reconstruction
RCP-1300 Ext.	5+25 to 7+70	Reconstruction
RCP-1340	0+00 to 0+90	Construction
RCP-1360	0+00 to 4+25	Construction

0-4 CONSTRUCTION

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

0-5 RECONSTRUCTION

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

<u>Road</u>	<u>Stations</u>	<u>Requirements</u>
RCP-Mainline	184+70 to 185+90	Bridge repair in accordance with the RCP ML BRIDGE BACKWALL DETAIL and PLANS sheets.
RCP-110	16+38 to 27+93	Clear and grub, grade shape and compact prior to rock application, apply and compact rock, install culverts.
RCP-1300 Ext.	5+25 to 7+70	

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>
RCP-Mainline	0+00 to 290+50	Maintenance grading, clean culverts, clean ditches, apply and compact rock, install culverts.
RCP-100	0+00 to 46+30	Maintenance grading, clean culverts, clean ditches, brushing, apply and compact rock, construct ditchouts, install culverts.
RCP-100A	0+00 to 8+10	Maintenance grading, apply and compact rock.
RCP-900	0+00 to 31+00	Maintenance grading, clean ditches, apply and compact rock, construct ditchouts, install culverts.

0-6 PRE-HAUL MAINTENANCE CONTINUED

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

<u>Road</u>	<u>Stations</u>	<u>Requirements</u>
RCP-920	0+00 to 6+35	Maintenance grading, clean ditches, apply and compact rock.
RCP-940	0+00 to 3+25	
RCP-1000	0+00 to 2+30	
RCP-1300	0+00 to 5+25	
RCP-1350	0+00 to 3+34	Maintenance grading, apply and compact rock.

0-7 POST-HAUL MAINTENANCE

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

0-10 ABANDONMENT

This project includes abandonment listed in Clause 9-21 ROAD ABANDONMENT.

0-12 DEVELOP ROCK SOURCE

Purchaser may develop an existing rock source. Rock source development will involve clearing, stripping, end haul and compaction of waste, drilling, shooting and manufacture of rock. Work for developing rock sources is listed in Section 6 ROCK AND SURFACING and is subject to the requirements of the ROCK SOURCE DEVELOPMENT PLAN.

SECTION 1 – GENERAL**1-1 ROAD PLAN CHANGES**

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

1-2 UNFORESEEN CONDITIONS

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

1-3 ROAD DIMENSIONS

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

1-4 ROAD TOLERANCES

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

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

1-6 ORDER OF PRECEDENCE

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

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

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

1-7 TEMPORARY ROAD CLOSURE

Purchaser shall notify the Contract Administrator a minimum of 10 business days before the closure of the following road(s). Construction may not close the following roads for more than the specified number of days.

<u>Road</u>	<u>Number of Allowable Closed Days</u>
RCP-Mainline	21

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 2023 (M41-10).

1-15 ROAD MARKING

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

- Road centerline marked with construction stakes, orange flagging, orange paint and RPs for new construction and reconstruction.
- Pre-haul maintenance marked with wooden stakes and/or painted trees, orange flagging and orange paint.
- Abandonment marked with orange flagging and orange painted trees.

1-18 REFERENCE POINT DAMAGE

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

1-21 HAUL APPROVAL

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

1-22 WORK NOTIFICATIONS

On the following road(s), Purchaser shall notify the Contract Administrator a minimum of 10 business days before work begins.

<u>Road</u>	<u>Stations</u>
RCP-Mainline	185+50

In addition, on the following road(s), Purchaser shall notify the Contract Administrator a minimum of 3 business days before work begins.

<u>Road</u>	<u>Stations</u>	<u>Comments</u>
RCP-Mainline	290+50	Walville Quarry Rock Exploration

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 and subgrade compaction;
- Concrete Block Wall placement;
- Structural Backfill and Drain Pipe installation;
- Rock application and compaction;
- Completion of pit operations.

1-25 ACTIVITY TIMING RESTRICTION

The specified 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 Roads	All Stations	Road Work	November 1 st through April 30 th

1-26 OPERATING DURING CLOSURE PERIOD

If permission is granted to operate during a closure period listed in Clause 1-25 ACTIVITY TIMING RESTRICTION, Purchaser shall comply with a maintenance plan to include further protection of state resources. Purchaser shall put preventative measures in place before operating during the closure period. Purchaser is required to maintain all haul roads at their own expense. If other operators are using, or desire to use these 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 6 inches on jaw run, pit run or native surface roads.
- Wheel track rutting exceeds 2 inches on crushed rock roads.
- Surface or base stability problems persist.
- When, in the opinion of the Contract Administrator excessive road damage or rutting may occur.

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

1-32 BRIDGE SURFACE RESTRICTION

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

If tracked equipment is used on bridge surfaces, Purchaser shall immediately cease all road construction and hauling operations. Purchaser shall remove any dirt, rock, or other material tracked or spilled on the bridge surface(s) and have surface(s) evaluated by the Region Engineer or their designee for any damage caused by transporting equipment. Any damage to the surface(s) will be repaired, at the Purchaser's expense, as directed by the Contract Administrator.

Purchaser shall have bridges load rated by a Registered Professional Engineer licensed in the State of Washington. All load rating reports, calculations, or drawings must be stamped by the licensed engineer and submitted to the Contract Administrator prior to allowing any work to continue. All damage to the bridge from transporting equipment will be repaired at the Purchaser's expense.

1-33 SNOW PLOWING RESTRICTION

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

1-40 ROAD APPROACHES TO COUNTY ROADS AND STATE HIGHWAYS

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

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

SECTION 2 – MAINTENANCE

2-1 GENERAL ROAD MAINTENANCE

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

2-2 ROAD MAINTENANCE – PURCHASER MAINTENANCE

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

2-3 ROAD MAINTENANCE – DESIGNATED MAINTAINER

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

2-4 PASSAGE OF LIGHT VEHICLES

Purchaser shall maintain 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 before timber haul. Purchaser shall accomplish all grading using a motor grader with a minimum of 175 horsepower.

<u>Road</u>	<u>Stations</u>	<u>Requirements</u>
RCP-Mainline	0+00 to 24+20	Grade and shape prior to rock application
	12+40 to 21+55	
	32+90 to 38+30	
	61+60 to 77+25	
	93+30 to 98+90	
	195+20 to 198+80	Grade and shape
	203+30 to 229+55	
	244+60 to 269+50	
	269+50 to 283+50	
RCP-100	0+00 to 46+30	Grade and shape
	20+00 to 22+50	Rip, grade and shape prior to rock application
RCP-100A	0+00 to 8+05	Grade and shape
RCP-900	1+35 to 2+35	Grade and shape prior to rock application
RCP-920	0+00 to 6+35	Grade and shape
RCP-940	0+00 to 3+25	
RCP-1000	0+00 to 2+30	Grade and shape prior to rock application
RCP-1300	0+00 to 5+25	Grade and shape prior to rock application
RCP-1350	0+00 to 3+34	Grade and shape prior to rock application

2-6 CLEANING CULVERTS

On the following road(s), Purchaser shall clean the inlets and outlets of all culverts and shall obtain written approval from the Contract Administrator before timber haul.

<u>Road</u>	<u>Stations</u>
RCP-Mainline	115+20, 150+30, 153+85, 290+50
RCP-100	41+50, 43+25

2-7 CLEANING DITCHES, HEADWALLS, AND CATCH BASINS

On the following road(s), Purchaser shall clean ditches, headwalls, and catchbasins. Work must be completed before timber haul and must be done in accordance with the TYPICAL SECTION SHEET and DITCH CLEANING DETAIL. Pulling ditch material across the road or mixing in with the road surface is not allowed.

<u>Road</u>	<u>Stations</u>
RCP-Mainline	76+35 to 84+60
	115+20 to 112+30
	160+55 to 163+35
	172+50 to 176+70
	190+70 to 198+75
	198+75 to 200+60
	208+25 to 211+45
	277+30 to 283+30
RCP-100	23+10 to 24+85
RCP-900	0+00 to 31+00
RCP-920	0+00 to 6+35
RCP-940	0+00 to 3+25
RCP-1000	0+00 to 2+30
RCP-1300	0+00 to 5+25

SECTION 3 – CLEARING, GRUBBING, AND DISPOSAL

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 ROADSIDE 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>
RCP-Mainline	145+00 to 176+70
	189+90 to 203+30
	258+85 to 269+70
RCP-100	0+00 to 46+30

3-2 BRUSHING RESTRICTION

Pulling, digging, pushing over, and other non-cutting methods used for vegetation removal may not be used for brushing.

3-5 CLEARING

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

3-8 PROHIBITED DECKING AREAS

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

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

3-10 GRUBBING

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

3-12 STUMP PLACEMENT

Purchaser shall place grubbed stumps adjacent to the road shoulder and in compliance with all other clauses in this road plan.

3-14 STUMPS WITHIN DESIGNATED WASTE AREAS

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

3-20 ORGANIC DEBRIS DEFINITION

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

3-21 DISPOSAL COMPLETION

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

3-22 DESIGNATED WASTE AREA FOR ORGANIC DEBRIS

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

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 and in natural openings unless otherwise detailed in this road plan. Where natural openings are unavailable or restrictive, alternate debris disposal methods are subject to the written approval of the Contract Administrator.

3-32 END HAULING ORGANIC DEBRIS

On slopes greater than 45%, Purchaser shall end haul or push organic debris to the designated waste areas specified in Clause 3-22 DESIGNATED WASTE AREA FOR ORGANIC DEBRIS or to a waste area located by the Contract Administrator.

SECTION 4 – EXCAVATION

4-2 PIONEERING

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

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

4-3 ROAD GRADE AND ALIGNMENT STANDARDS

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

- Grade and alignment must have smooth continuity, without abrupt changes in direction.
- Maximum grades may not exceed 18 percent favorable and 15 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.

4-5 CUT SLOPE RATIO

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

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

4-6 EMBANKMENT SLOPE RATIO

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

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

4-7 SHAPING CUT AND FILL SLOPE

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

4-8 CURVE WIDENING

The minimum widening placed on the inside of curves is:

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

4-9 EMBANKMENT WIDENING

The minimum embankment widening is:

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

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

4-21 TURNOUTS

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

4-22 TURNAROUNDS

Purchaser shall construct turnarounds as designated on the ROCK LIST. Turnarounds must be no larger than 30 feet long and 30 feet wide. Location changes are subject to written approval by the Contract Administrator.

4-25 DITCH CONSTRUCTION AND RECONSTRUCTION

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

4-27 DITCH WORK – MATERIAL USE PROHIBITED

Purchaser shall not pull ditch material across the road or mix in with the road surface. Excavated material must be disposed of as specified in Clause 4-36 DISPOSAL OF WASTE MATERIAL.

4-28 DITCH DRAINAGE

Ditches must drain to cross-drain culverts or ditchouts.

4-29 DITCHOUTS

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

4-35 WASTE MATERIAL DEFINITION

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

4-36 DISPOSAL OF WASTE MATERIAL

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

4-37 WASTE AREA LOCATION

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

<u>Waste Area Location</u>	<u>Comments</u>
RCP-Mainline	Sta. 172+90, right side of road, outside of the road prism
	Sta. 187+40, right side of road, outside of the road prism
Walville Quarry	See ROCK SOURCE DEVELOPMENT PLAN for location

4-38 PROHIBITED WASTE DISPOSAL AREAS

Purchaser shall not deposit waste material in the following areas:

- Within 25 feet of a cross drain culvert.
- Within 100 feet of a live stream or wetland.
- Within a riparian management zone.
- Within a wetland management zone.
- On side slopes steeper than 45%.
- In locations that interfere with the construction of the road prism.
- In locations that impede drainage.
- Within the operational area for cable landings.
- Against standing timber.

4-48 NATIVE MATERIAL

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

4-55 ROAD SHAPING

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

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.

4-57 EXISTING ROAD RIPPING AND BLADING

On the following road(s), Purchaser shall rip the surface to a depth of 4 inches and reshape. During the reshaping process, rocks over 8 inches in diameter must be sidecast except on slopes over 45 percent where rocks must be placed in a location specified in Clause 4-37 WASTE AREA LOCATION.

<u>Road</u>	<u>Stations</u>
RCP-100	20+00 to 22+50

4-60 FILL COMPACTION

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

4-61 SUBGRADE COMPACTION

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

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.

SECTION 5 – DRAINAGE

5-1 REMOVAL OF SHOULDER BERMS

Purchaser shall remove berms from road shoulders, except as directed by the Contract Administrator. The construction of ditchouts is required where ponding could result from the effects of sidecast debris.

5-5 CULVERTS

Purchaser shall install culverts as part of this contract. Culverts must be installed concurrently with subgrade work and must be installed before subgrade compaction and rock application. Culvert locations and the minimum requirements for culvert length and diameter are designated on the CULVERT AND DRAINAGE LIST. Culvert, downspout, and flume lengths may be adjusted to fit as-built conditions and may not terminate directly on unprotected soil. Culverts must be new material and meet the specifications in Clauses 10-15 through 10-24.

5-6 CULVERT TYPE

Purchaser shall install culverts made of plastic in accordance with Clauses 10-15 through 10-24.

5-10 CULVERT MARKER INSTALLATION

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

5-12 UNUSED MATERIALS STATE PROPERTY

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

5-15 CULVERT INSTALLATION

Culvert installation must be in accordance with the CULVERT AND DRAINAGE SPECIFICATION DETAIL and the Corrugated Polyethylene Pipe Association's "Recommended Installation Practices for Corrugated Polyethylene Pipe and Fittings". Corrugated Polyethylene pipe must be installed in a manner consistent with the manufacturer's recommendations. Culverts shall be banded using lengths of no less than 10 feet, and no more than one length less than 20 feet. Shorter section of banded culvert shall be installed at the inlet end.

5-17 CROSS DRAIN SKEW AND SLOPE

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

5-18 CULVERT DEPTH OF COVER

Cross drain culverts must be installed with a depth of cover of not less than 1 foot of compacted subgrade over the top of the culvert at the shallowest point.

5-20 ENERGY DISSIPATERS

Purchaser shall install energy dissipaters in accordance with the CULVERT AND DRAINAGE SPECIFICATION DETAIL.

The type of energy dissipater and the amount of material must be consistent with the specifications listed on the CULVERT AND DRAINAGE LIST. No placement by end dumping or dropping of rock is allowed. Energy dissipater installation is subject to approval by the Contract Administrator.

5-25 CATCH BASINS

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

5-26 HEADWALLS FOR CROSS DRAIN CULVERTS

Purchaser shall construct headwalls in accordance with the CULVERT AND DRAINAGE SPECIFICATION DETAIL at all culverts on the CULVERT AND DRAINAGE LIST that specify the placement of rock. Rock must be placed on shoulders, slopes, and around culvert inlets and outlets. Minimum specifications require that rock be placed at a width of one culvert diameter on each side of the culvert opening, and to a height of one culvert diameter above the top of the culvert. Rock may not restrict the flow of water into culvert inlets or catch basins. No placement by end dumping or dropping of rock is allowed.

SECTION 6 – ROCK AND SURFACING

6-2 ROCK SOURCE ON STATE LAND

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

<u>Source</u>	<u>Location</u>	<u>Rock Type</u>
Walville Quarry	T13R06W Section 23	Select Pit Run, Quarry Spalls, Light Loose Rip Rap

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 additional yardage without prior written approval from the Contract Administrator. Other stockpiles may not be used.

<u>Source</u>	<u>Location</u>	<u>Rock Type</u>	<u>Quantity</u>
Walville Quarry	T13R06W Section 23	2 ½ Inch Minus Rock	1,000cy

6-5 ROCK FROM COMMERCIAL SOURCE

Rock used in accordance with the RCP ML BRIDGE BACKWALL DETAIL and PLANS sheets shall be obtained from any commercial source at the Purchaser's expense. 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.

6-10 ROCK SOURCE DEVELOPMENT PLAN BY STATE

Purchaser shall conduct rock source development and use at the following sources, in accordance with the written ROCK SOURCE DEVELOPMENT PLAN prepared by the state and included in this road plan. Upon completion of operations, the rock source must be left in the condition specified in the ROCK SOURCE DEVELOPMENT PLAN and approved in writing by the Contract Administrator. Purchaser shall notify the Contract Administrator a minimum of 5 business days before starting any operations in the rock source.

<u>Source</u>	<u>Rock Type</u>
Walville Quarry	Select Pit Run, Quarry Spalls

6-13 ROCK EXPLORATION

Purchaser shall provide an excavator and rock drill with operator for up to 10 hours each of exploration of rock and other related work as directed by the Contract Administrator at the following site(s).

<u>Site</u>	<u>Location</u>	<u>Comment</u>
Walville Quarry	T13R06W Section 23	See ROCK SOURCE DEVELOPMENT PLAN for drilling locations

6-22 FRACTURE REQUIREMENT FOR ROCK

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

6-23 ROCK GRADATION TYPES

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

6-28 1 ¼-INCH MINUS CRUSHED ROCK

% Passing 1 ¼" square sieve	100%
% Passing 5/8" square sieve	50 - 80%
% Passing U.S. #4 sieve	35 - 50%
% Passing U.S. #40 sieve	3 - 18%
% Passing U.S. #200 sieve	7.5% maximum
Sand Equivalent	40 minimum

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

6-32 2 ½-INCH MINUS CRUSHED ROCK

% Passing 2 ½" square sieve	100%
% Passing 2" square sieve	65 - 95%
% Passing 1" square sieve	50 – 80%
% Passing U.S. #4 sieve	30 – 50%
% Passing U.S. #40 sieve	16% maximum
% Passing U.S. #200 sieve	8% maximum

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

6-41 SELECT PIT RUN ROCK

No more than 50 percent of the rock may be larger than 6 inches in any dimension and no rock may be larger than 12 inches in any dimension. Select Pit Run rock may not contain more than 5 percent by weight of organic debris, dirt, and trash. Rock may require processing to meet this specification.

6-43 QUARRY SPALLS

% Passing 8" square sieve	100%
% Passing 3" square sieve	40% maximum
% Passing 3/4" square sieve	10% maximum

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

6-50 LIGHT LOOSE RIP RAP

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

<u>Quantity</u>	<u>Approximate Size Range</u>
20% to 90%	18" - 28"
15% to 80%	8" - 18"
10% to 20%	3" - 8"

6-52 DRAIN ROCK

% Passing 1" square sieve	100%
% Passing U.S. #4 sieve	16%
% Passing U.S. #200 sieve	5% maximum

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

6-55 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 loose yards. Contractor 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.

6-56 ROCK MEASUREMENT BY TRUCK VOLUME

Measurement of spot rock, energy dissipaters, culvert backfill, drain rock, 1 ¼ inch minus rock and landing rock is on a cubic yard truck measure basis. Contractor shall measure each truck box before rock hauling. An average of such volumes for each truck will be used to tally the volume hauled. The Contract Administrator may periodically require that a load be flattened off and its volume calculated. Contractor shall maintain load tally sheets for each truck and shall give them to the Contract Administrator on a weekly basis during rocking operations.

6-70 APPROVAL BEFORE ROCK APPLICATION

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

6-71 ROCK APPLICATION

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

6-73 ROCK FOR WIDENED PORTIONS

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

6-75 OPTIONAL ROCK EXCEPTION

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

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

<u>Road</u>	<u>Stations</u>	<u>Options</u>
Spur A	0+00 to 1+75	Select Pit Run
Spur B	0+00 to 2+60	
RCP-1340	0+00 to 0+90	
RCP-1360	0+00 to 4+25	

SECTION 7 – STRUCTURES

7-5 STRUCTURE DEBRIS

Purchaser shall not allow debris from the installation or removal of structures to enter any stream. Components removed from existing structures(s) must be placed at designated site(s). Purchaser shall maintain a clean jobsite, with all materials stored away from the high water mark or other area presenting a risk of the materials entering a stream. Debris entering any stream must be removed immediately, and placed in the site(s) designated for stockpiling or disposal. Purchaser shall retrieve all material carried downstream from the jobsite.

7-39 BRIDGE REPAIR

Purchaser shall conduct bridge repairs as specified on the RCP ML BRIDGE BACKWALL DETAIL and PLANS sheets.

SECTION 8 – EROSION CONTROL

8-1 SEDIMENT CONTROL STRUCTURES

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

8-2 PROTECTION FOR EXPOSED SOIL

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

8-15 REVEGETATION

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

<u>Road</u>	<u>Location</u>	<u>Qty (lbs)*</u>	<u>Type</u>	<u>Comments</u>
RCP-Mainline	184+70 to 185+90	10	Grass Seed	Immediately following Reconstruction
RCP-100A	8+10 to 20+40	45		Immediately following Abandonment
RCP-110	0+00 to 16+38	42		Immediately following Construction
	16+38 to 27+93	11		Immediately following Reconstruction
Spur A	0+00 to 1+75	4		Immediately following Construction
Spur B	0+00 to 2+60	7		
RCP-1300 EXT	5+25 to 7+70	2		Immediately following Reconstruction
RCP-1340	0+00 to 0+90	2		Immediately following Construction
RCP-1360	0+00 to 4+25	11		
RCP-1000	2+30 to 6+66	16		Immediately following Abandonment
Waste Areas	Walville Quarry	50		Immediately following Embankment

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

8-16 REVEGETATION SUPPLY

The Purchaser shall provide the grass seed.

8-17 REVEGETATION TIMING

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

8-19 ASSURANCE FOR SEEDED AREA

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

8-25 GRASS SEED

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

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

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

SECTION 9 – POST-HAUL ROAD WORK

9-1 EARTHEN BARRICADES

Purchaser shall construct barricades in accordance with the EARTHEN BARRICADE DETAIL.

<u>Road</u>	<u>Stations</u>
RCP-100A	8+10
RCP-1000	2+30

9-3 CULVERT MATERIAL REMOVED FROM STATE LAND

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

9-5 POST-HAUL MAINTENANCE

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

9-10 LANDING DRAINAGE

Purchaser shall provide for drainage of the landing surface.

9-11 LANDING EMBANKMENT

Purchaser shall slope landing embankments to the original construction specifications.

9-21 ROAD ABANDONMENT

Purchaser shall abandon the following roads before the termination of this contract.

<u>Road</u>	<u>Stations</u>
RCP-100A	8+10 to 20+40
RCP-1000	2+30 to 6+66

9-22 ABANDONMENT

- Remove road shoulder berms except as directed.
- Construct non-drivable waterbars according to the attached NON-DRIVABLE WATERBAR DETAIL at a maximum spacing that will produce a vertical drop of no more than 10 feet between waterbars or between natural drainage paths and with a maximum spacing of 100 feet, or as marked in the field.
- Skew waterbars at least 30 degrees from perpendicular to the road centerline on roads in excess of 3 percent grade.
- Key waterbars into the cut-slope to intercept the ditch. Waterbars must be outsloped to provide positive drainage. Outlets must be on stable locations.
- Block roads with earthen barricades in accordance with the attached EARTHEN BARRICADE DETAIL.
- Remove ditch cross drain culverts and leave the resulting trench open.
- Slope all trench walls and approach embankments no steeper than 1.5:1.
- Apply grass seed concurrently with abandonment and in accordance with Section 8 EROSION CONTROL.
- Cover, concurrently with abandonment, all exposed soils within 100 feet of any live stream, with an 8-inch deep layer of straw.

SECTION 10 MATERIALS

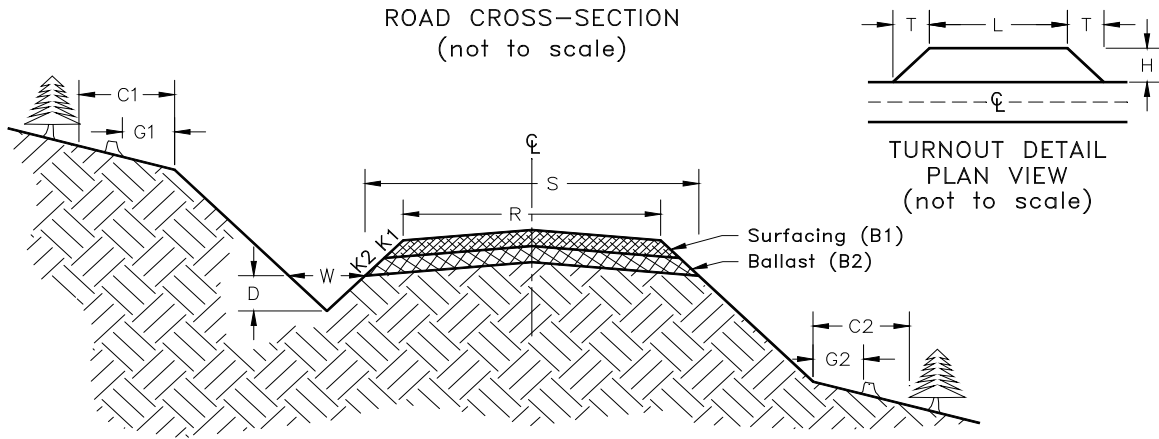
10-17 CORRUGATED PLASTIC CULVERT

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

10-22 PLASTIC BAND

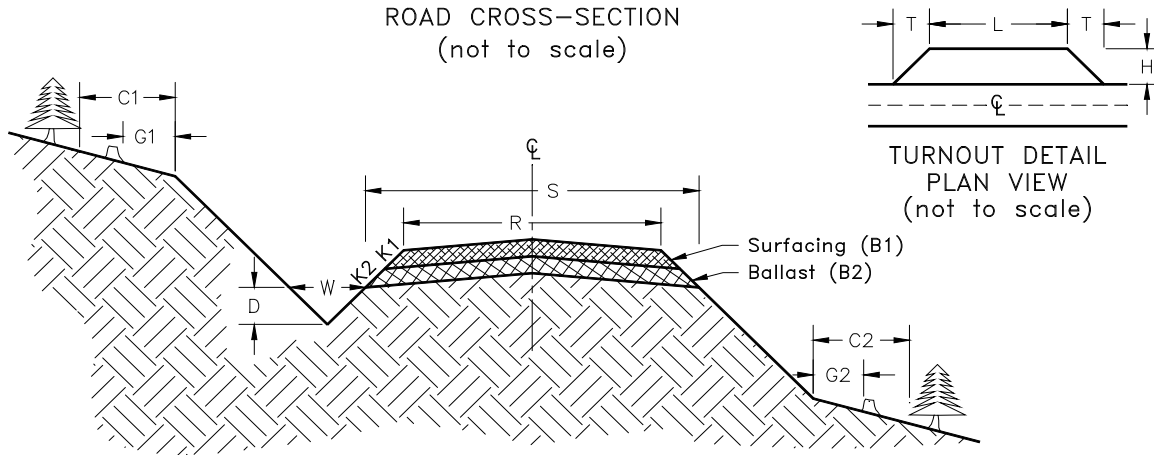
Plastic coupling and end bands must meet the AASHTO specification designated for the culvert. Only fittings supplied or recommended by the culvert manufacturer may be used. Couplings must be split coupling band. Split coupling bands must have a minimum of four corrugations, two on each side of the pipe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

TYPICAL SECTION SHEET



Road Number	From Station	To Station	Tolerance Class	Subgrade Width ft	Road Width ft	Ditch Width ft	Ditch Depth ft	Crown @ CL in	Grubbing Limits ft		Clearing Limits ft	
									G1	G2	C1	C2
RCP-Mainline	0+00	184+70	A	21	16	3	1	4	0	0	0	0
	184+70	185+90	A	23	18	3	1	4	0	0	0	0
	185+90	290+50	A	21	16	3	1	4	0	0	0	0
RCP-100	0+00	46+30	B	16	12	3	1	4	0	0	0	0
RCP-100A	0+00	20+40	B	16	12	3	1	4	0	0	0	0
RCP-110	0+00	16+38	C	16	12	3	1	4	5	5	10	10
RCP-110	16+38	27+93	C	16	12	3	1	4	5	5	10	10
RCP-900	0+00	31+00	B	16	12	3	1	4	0	0	0	0
RCP-920	0+00	6+35	B	16	12	3	1	4	0	0	0	0
RCP-940	0+00	3+25	B	16	12	3	1	4	0	0	0	0
Spur A	0+00	1+75	C	16	12	3	1	4	5	5	10	10
Spur B	0+00	2+60	C	16	12	3	1	4	5	5	10	10
RCP-1300	0+00	5+25	B	16	12	3	1	4	0	0	0	0
RCP-1300 Ext	5+25	7+70	C	16	12	3	1	4	5	5	10	10
RCP-1340	0+00	0+90	B	16	12	3	1	4	5	5	10	10
RCP-1350	0+00	3+34	B	16	12	3	1	4	0	0	0	0
RCP-1360	0+00	4+25	B	16	12	3	1	4	5	5	10	10
RCP-1000	0+00	6+66	B	16	12	3	1	4	0	0	0	0

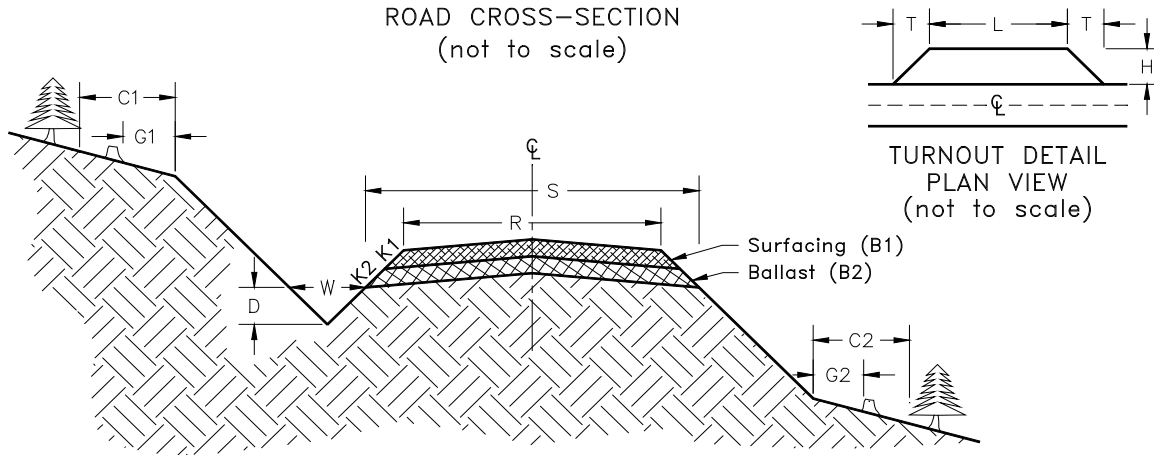
ROCK LIST



SELECT PIT RUN 1 OF 2

Road Number	From Station	To Station	Rock Slope	Compacted Rock Depth (in)	C.Y. per Station or Unit	# of Stations or Units	C.Y. Subtotal	Rock Source	Turnout		
									Length	Width	Taper
			K2	B2				Walville Quarry or Commercial Source	L	H	T
RCP ML BRIDGE BACKWALL REPAIR RCP-Mainline		Ballast Road Rock Landings	1 1/2:1	12	85	1	85				
RCP-110	0+00	16+38	1 1/2:1	15	81	16.38	1327				
		Turnarounds			43	1	43				
		Turnouts			38	2	76		40	10	25
		Curve Widening					46				
		Landings			68	1	68				
RCP-110	16+38	27+93	1 1/2:1	15	81	11.55	936				
		Turnarounds	1 1/2:1	15	43.5	2	87				
		Turnouts			38	1	38		40	10	25
		Curve Widening					33				
		Landings			67.25	4	269				
RCP-920	0+00	6+35	1 1/2:1	12	63	6.35	400				
		Landings			54	1	54				
RCP-940	0+00	3+25	1 1/2:1	12	63	3.25	205				
		Landings			54	1	54				
Spur A	* *	0+00 1+75 Landings	1 1/2:1	15	81 68	1.75 1	142 68				
Spur B	* * *	0+00 2+60 Curve Widening Landings	1 1/2:1	15	81 68	2.60 1	211 68				
RCP-1300 Ext		5+25 7+70 Landings	1 1/2:1	15	81 68	2.45 1	198 68				

ROCK LIST



SELECT PIT RUN 2 OF 2

Road Number	From Station	To Station	Rock Slope	Compacted Rock Depth (in)	C.Y. per Station or Unit	# of Stations or Units	C.Y. Subtotal	Rock Source	Turnout		
									Length	Width	Taper
			K2	B2				Walville Quarry or Commercial Source	L	H	T
RCP-1340	0+00	0+90	1 1/2:1	15	81	0.90	73				
	Landings				68	1	68				
RCP-1350	Landings				68	1	68				
RCP-1360	0+00	4+25	1 1/2:1	15	81	4.25	344				
	Curve Widening						12				
	Landings				68	1	68				

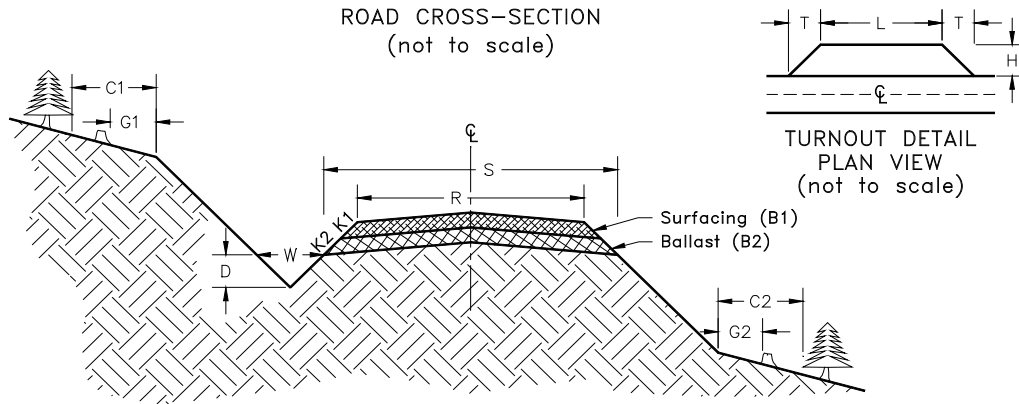
*Optional Rock in accordance with 6-75

REQUIRED SELECT PIT RUN: 4956 CY

OPTIONAL SELECT PIT RUN: 496 CY

TOTAL SELECT PIT RUN: 5452 CY

ROCK LIST

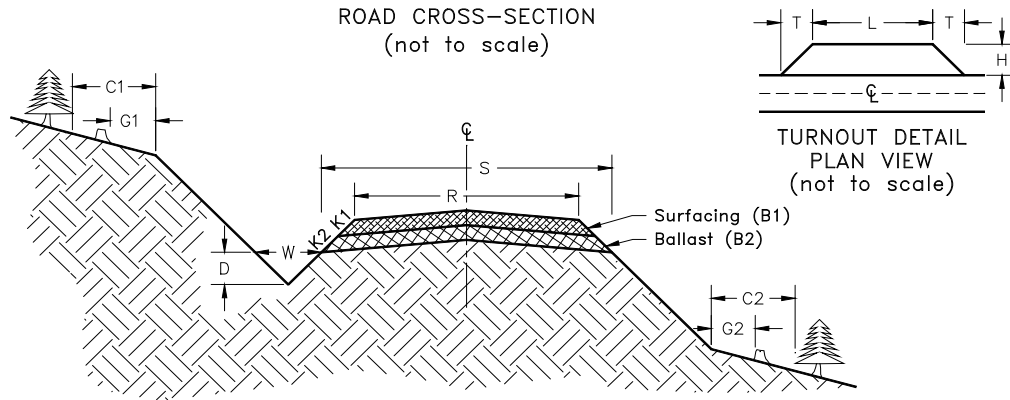


2 1/2 INCH MINUS CRUSHED ROCK

Road Number	From Station	To Station	Rock Slope	Compacted Rock Depth (in)	C.Y. per Station or Unit	# of Stations or Units	C.Y. Subtotal	Rock Source	Turnout		
									Length	Width	Taper
			K1	B1				Walville Quarry Stockpile or Commercial Source	L	H	T
RCP-Mainline	0+00	290+50	1 1/2:1	4	26	23.76	618				
	Spot Rock						40				
	0+00	290+50									
	Culvert				20	3	60				
	Backfill/Bedding										
RCP-100	0+00	46+30		4	20	2.50	50				
	Spot Rock						90				
	0+00	46+30									
RCP-100A	Spot Rock						50				
	0+00	8+10									
RCP-900	Spot Rock						50				
	1+00	3+00									
	Culvert				20	2	40				
	Backfill/Bedding										
RCP-1300	0+00	5+25	1 1/2:1	6	30	5.25	158				
	Turnarounds				16	1	16				

REQUIRED 2 1/2-INCH MINUS CRUSHED ROCK: 1172 CY

ROCK LIST

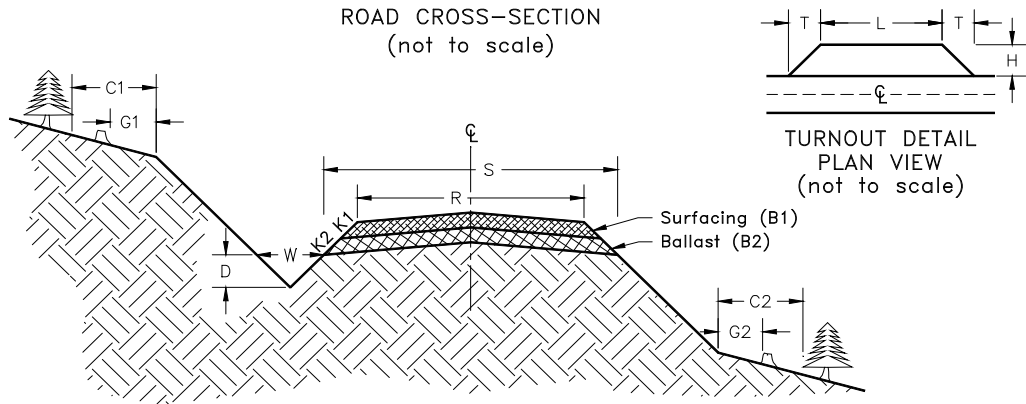


QUARRY SPALLS

Road Number	From Station	To Station	Rock Slope	Compacted Rock Depth (in)	C.Y. per Station or Unit	# of Stations or Units	C.Y. Subtotal	Rock Source
			K2	B2				Walville Quarry or Commercial Source
RCP-Mainline	Inlet Armoring				0.5	3	1.5	
	Energy Dissipaters				0.5	3	1.5	
RCP-110 Construction	Inlet Armoring				0.5	3	1.5	
	Energy Dissipaters				0.5	2	1	
RCP-110 Reconstruction	Inlet Armoring				0.5	4	2	
	Energy Dissipaters				0.5	4	2	
RCP-900	Inlet Armoring				0.5	2	1.0	
	Energy Dissipaters				0.5	2	1.0	
Spur B	Inlet Armoring				0.5	1	0.5	
	Energy Dissipaters				0.5	1	0.5	

REQUIRED QUARRY SPALLS: 12.5 CY

ROCK LIST

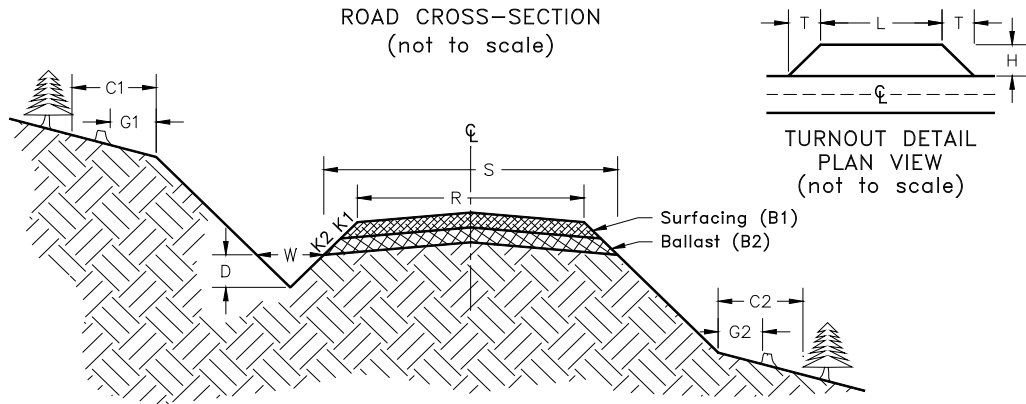


1 1/4 INCH MINUS CRUSHED ROCK

Road Number	From Station	To Station	Rock Slope	Compacted Rock Depth (in)	C.Y. per Station or Unit	# of Stations or Units	C.Y. Subtotal	Rock Source
			K1	B1				Commercial Source
RCP ML	Concrete Block Wall Base Rock	Structural Backfill		6	6	1	6	
BRIDGE			See Plans		1300	1	1300	
BACKWALL			1 1/2:1	6	40	1	40	
REPAIR	Surfacing							

REQUIRED 1 1/4-INCH MINUS CRUSHED ROCK: 1346 CY

ROCK LIST



DRAIN ROCK

Road Number	From Station	To Station	Rock Slope	Compacted Rock Depth (in)	C.Y. per Station or Unit	# of Stations or Units	C.Y. Subtotal	Rock Source
			K1	B1				Commercial Source
RCP ML BRIDGE BACKWALL REPAIR		Drain Rock	See Plans		60	1	60	

REQUIRED DRAIN ROCK: 60 CY

CULVERT LIST

Road Number	Location	Culvert			Armoring (C.Y.)			Backfill Material	Bedding Material	Inlet Marker	Remarks
		Dia (In)	Length	Type	Inlet	Outlet	Type				
RCP-Mainline	219+55	18	30	PD	0.5	0.5	QS	CR	CR	Y	
RCP-Mainline	279+40	18	40	PD	0.5	0.5	QS	CR	CR	Y	
RCP-Mainline	281+20	18	30	PD	0.5	0.5	QS	CR	CR	Y	
RCP-110	0+30	18	60	PD	0.5	0.0	QS	NT	NT	Y	Ditch continuity
RCP-110	4+65	18	30	PD	0.5	0.5	QS	NT	NT	Y	
RCP-110	10+78			DO							Ditchout Left
RCP-110	16+38	18	30	PD	0.5	0.5	QS	NT	NT	Y	
RCP-110	19+08			DO							Ditchout Right
RCP-110	20+63	18	30	PD	0.5	0.5	QS	NT	NT	Y	
RCP-110	24+83	18	30	PD	0.5	0.5	QS	NT	NT	Y	
RCP-110	26+88	18	30	PD	0.5	0.5	QS	CR	CR	Y	
RCP-900	1+90	18	30	PD	0.5	0.5	QS	CR	CR	Y	
RCP-900	5+75			DO							Ditchout Right
RCP-900	8+75	18	30	PD	0.5	0.5	QS	CR	CR	Y	
RCP-900	15+55			DO							Ditchout Right
RCP-900	28+20			DO							Ditchout Left
RCP-900	31+00			DO							Ditchout Left
RCP-920	1+75	18	30	PD	0.5	0.5	QS	CR	CR	Y	
Spur B	1+70	18	30	PD	0.5	0.5	QS	NT	NT	Y	
RCP-1360	3+75			DO							Ditchout Left

Key:

- QS - Quarry Spalls
- NT - Native Material
- CR - 2 1/2 Inch Minus Crushed Rock
- PD - Polyethylene Pipe Double Wall
- DO - Ditchout

COMPACTION LIST

Road	From Station	To Station	Type	Max Depth Per Lift (inches)	Equipment Type	Minimum Equipment Weight (lbs)	Minimum Number of Passes	Maximum Operating Speed (mph)	Maximum Amount of Deflection (inches)
All Roads			Subgrade	12	Vibratory Smooth Drum	14,000	4	3	2
All Roads			Fill	12	Vibratory Smooth Drum	14,000	4	3	2
All Roads			Waste Area	24	Excavation	28,000	-	-	4
All Roads			Pre-haul Surface	6	Vibratory Smooth Drum	14,000	5	3	1
All Roads			Rock	12	Vibratory Smooth Drum	14,000	3	3	1

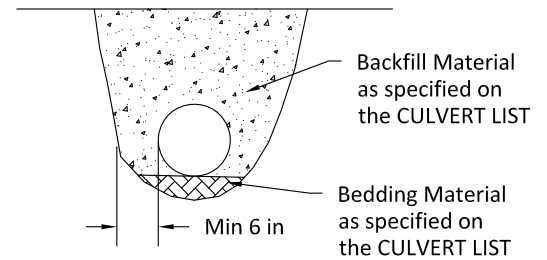
CULVERT AND DRAINAGE SPECIFICATION DETAIL
PAGE 1 OF 2

INSTALLATION REQUIREMENTS:

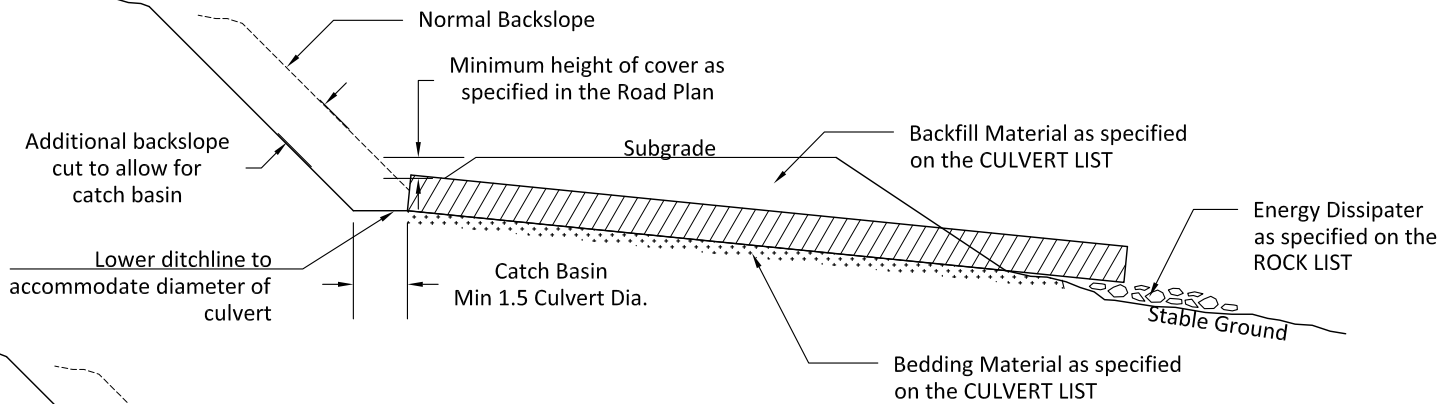
1. Proper preparation of foundation and placement of any required bedding material shall precede the installation of all culverts. This includes necessary leveling of the native trench bottom and compaction of required bedding material to form a uniform, dense, unyielding base. The pipe must be uniformly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

ALL DRAWINGS ARE NOT TO SCALE

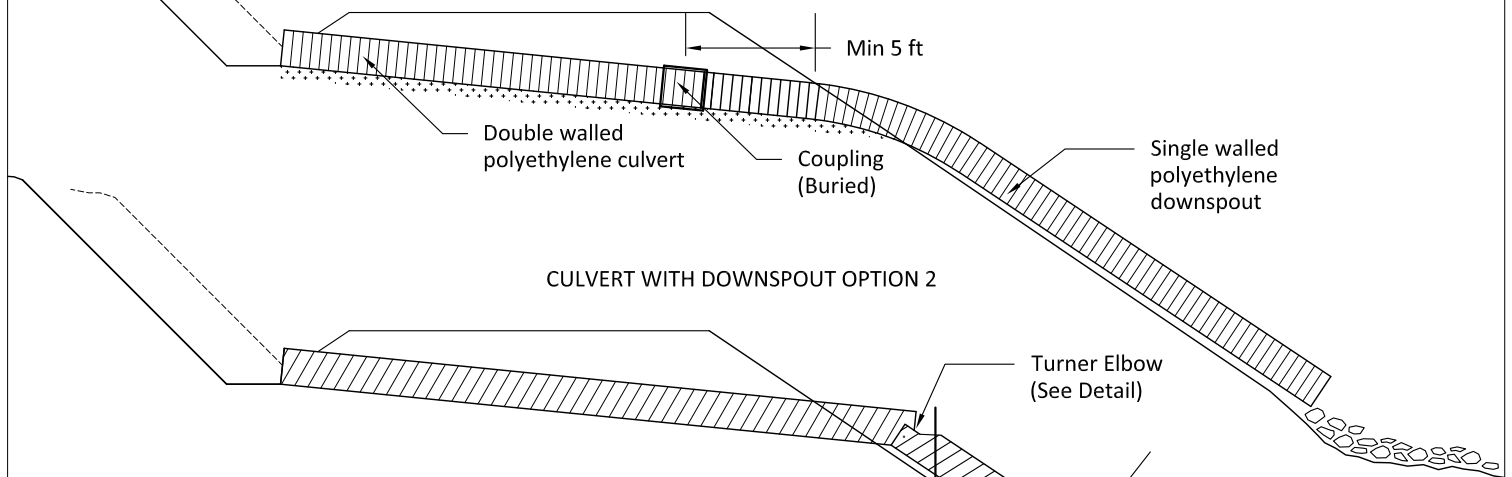
CROSS SECTION



CULVERT PROFILE (TYPICAL)

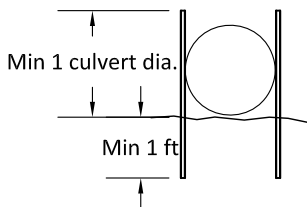


CULVERT WITH DOWNSPOUT OPTION 1



CULVERT WITH DOWNSPOUT OPTION 2

SUPPORT STAKES

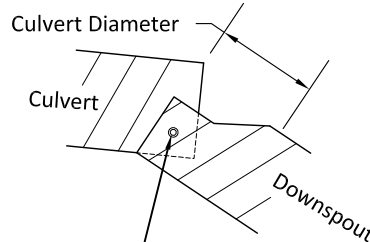


Stake Material: T-post with rust protection coating.

Connections: Bolt support stakes to the culvert with $\frac{5}{8}$ " u-bolts, with washers on both the inside and outside of the culvert.

Alternative staking methods may be approved, in writing, by the Contract Administrator.

TURNER ELBOW



Bolted with $\frac{5}{8}$ " galvanized bolts and washers (both sides)

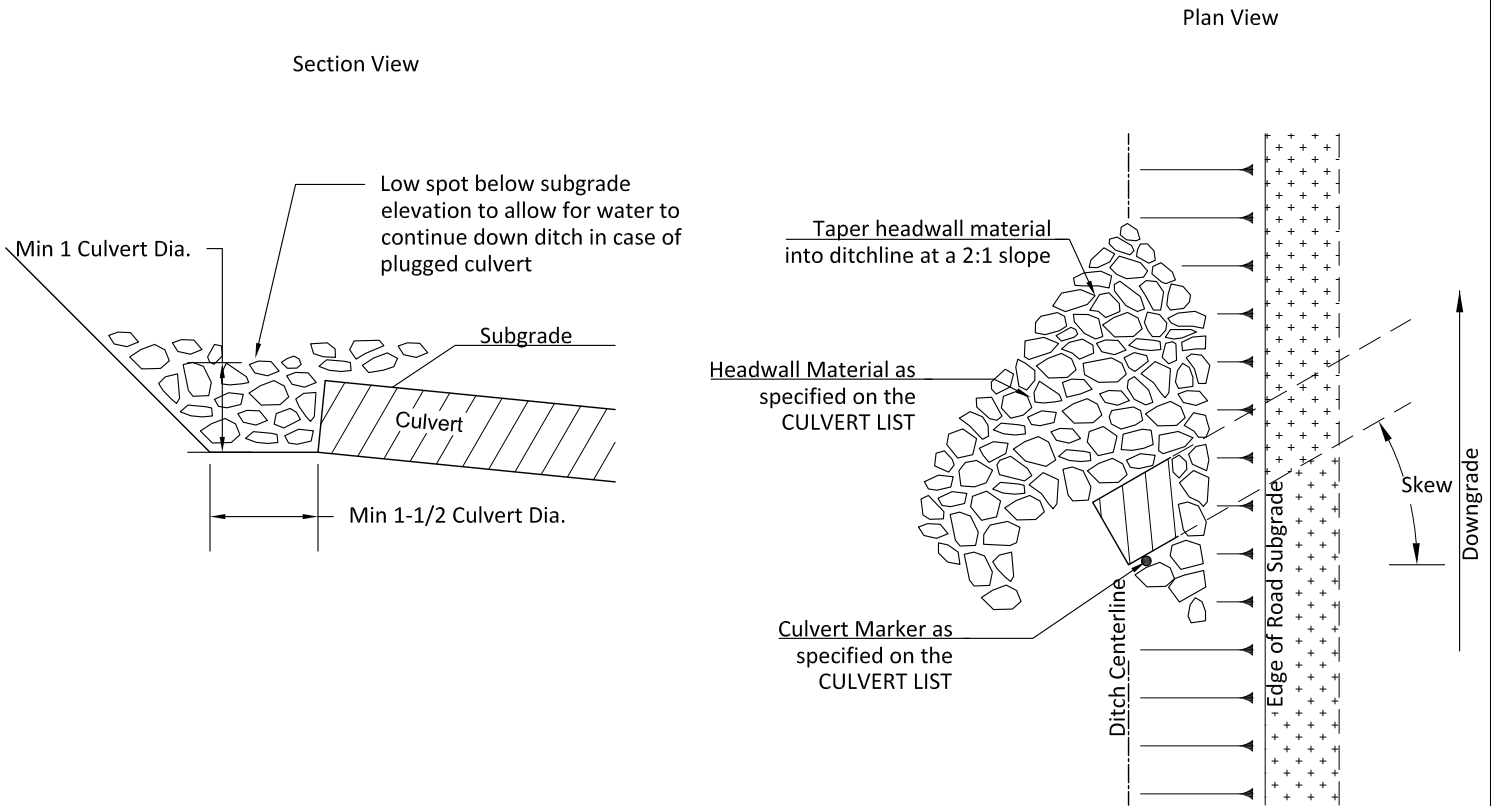
Downspout must be 6 inches larger in diameter than the culvert.

Support Stakes
(See Detail)

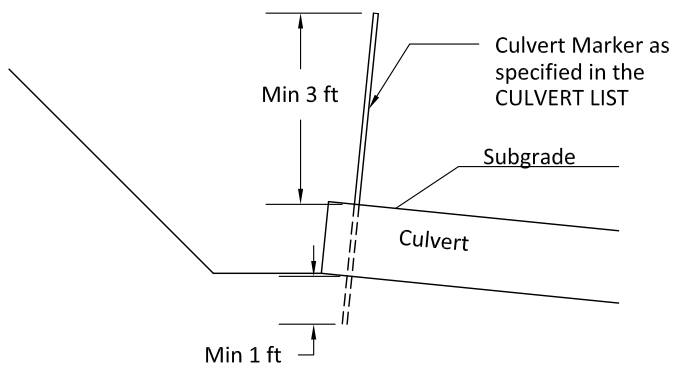
CULVERT AND DRAINAGE SPECIFICATION DETAIL

PAGE 2 OF 2

HEADWALLS

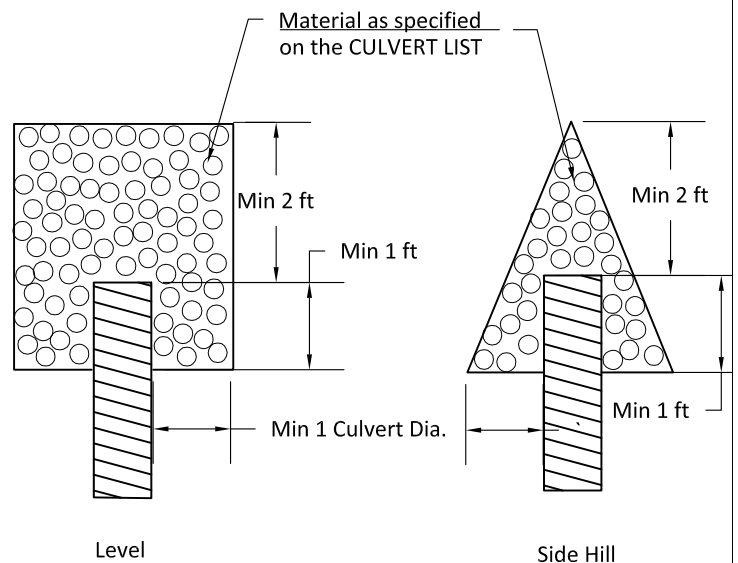


CULVERT MARKERS



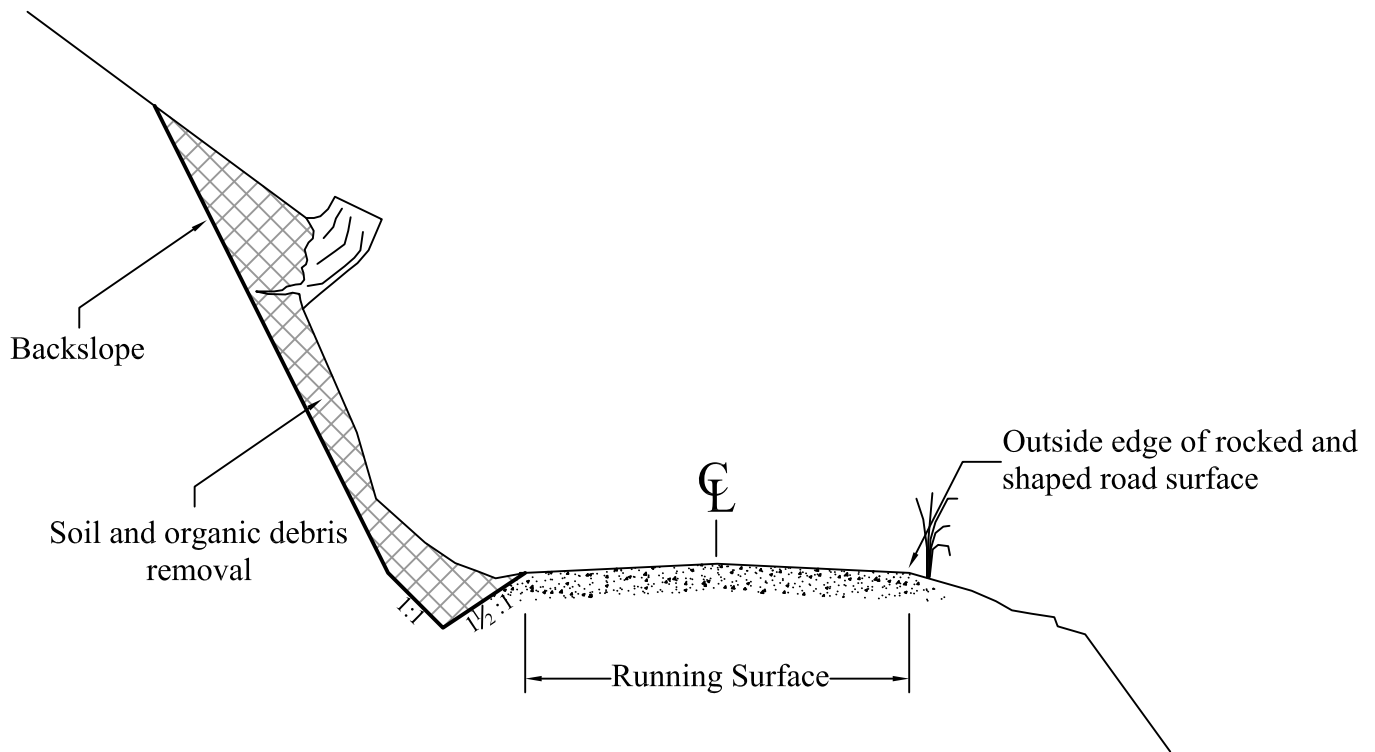
Culvert Marker Material: 1 Inch I.D., Schedule 40 PVC Pipe, White. Marker must be capped on the top.
 Culvert Marker Placement: Place on uphill side of culvert, between corrugations if possible.
 Alternative culvert marker types may be approved, in writing, by the Contract Administrator.

ENERGY DISSIPATERS



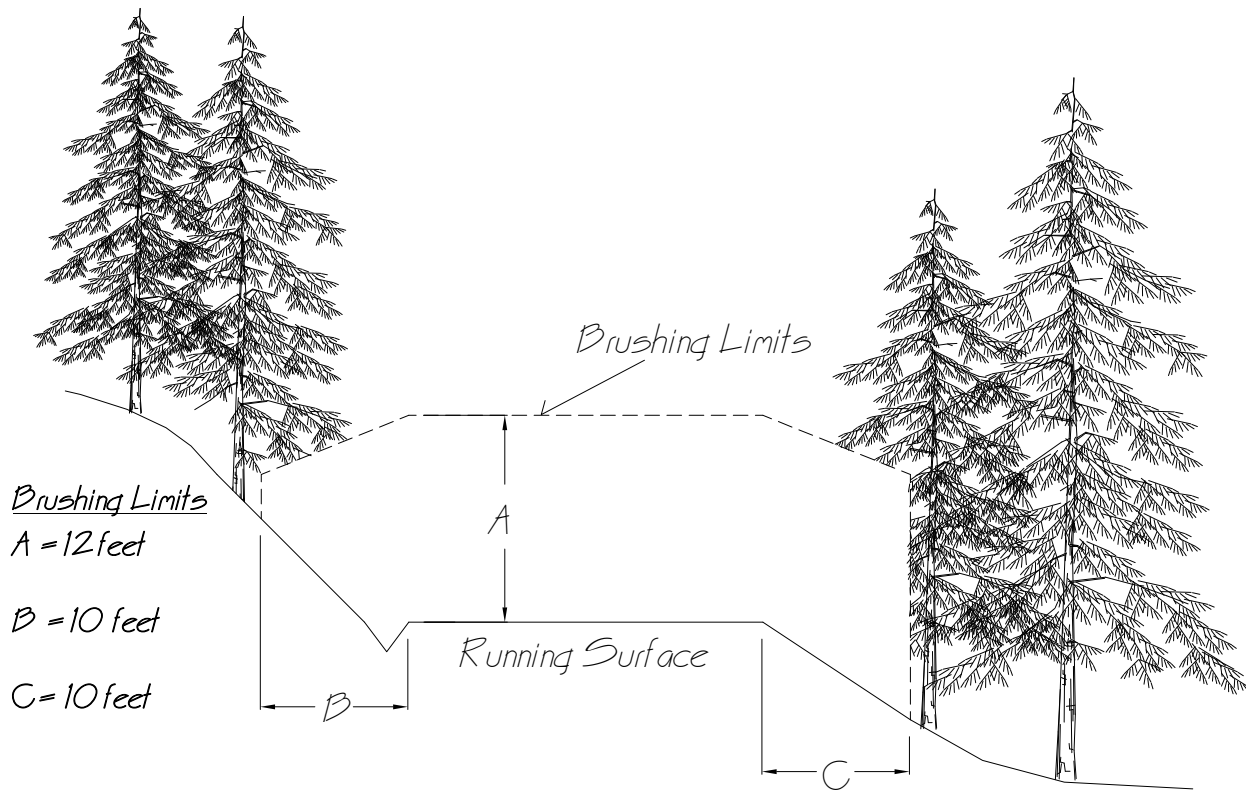
Min Energy Dissipater Depth: 1 Culvert Dia.

Ditch Cleaning Detail



1. The backslope shall be no steeper than 1/2:1, unless the material is hardpan or solid rock, in which case it may be 1/4:1.
2. If there is sufficient width for the ditch without affecting the cut bank, then removing bank material is not required.
3. If there is insufficient width to clean or construct a ditch without disturbing more than 15 vertical feet of bank, the Contract Administrator may authorize changes to this plan in order to still meet the intent of having a ditch, while staying within the excavation limits already set.
4. Ditch cleaning or construction shall not shrink the running surface of the road.

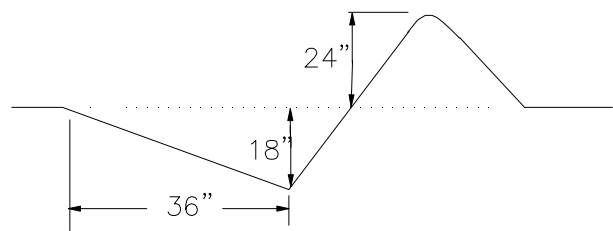
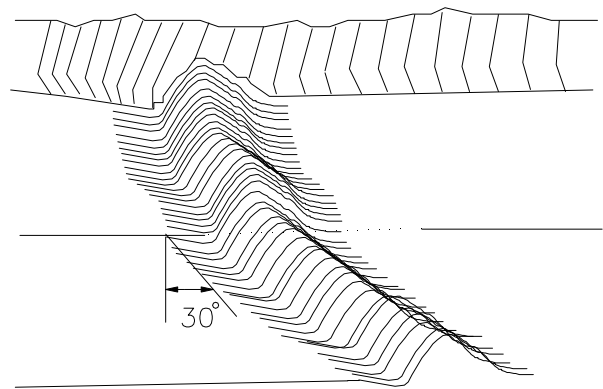
ROADSIDE BRUSHING DETAIL



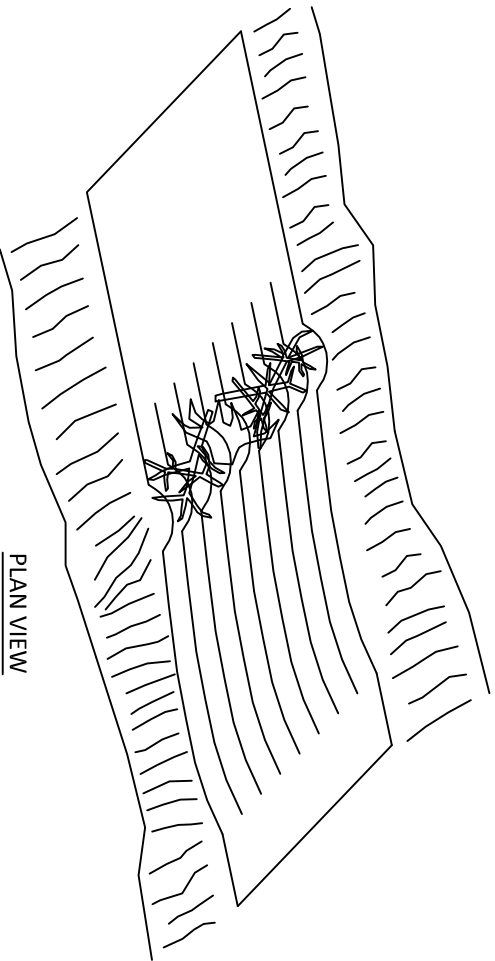
GENERAL NOTES

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

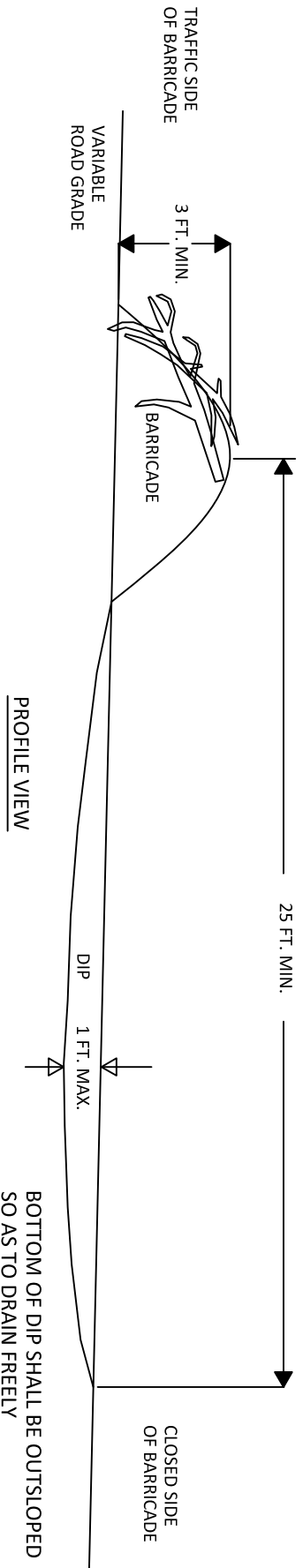
NON-DRIVABLE WATER BAR DETAIL



EARTHEN BARRICADE DETAIL



SLASH AND ROOT WADS SHALL BE INCORPORATED INTO THE TRAFFIC SIDE OF THE BARRICADE.



STATE OF WASHINGTON
DEPARTMENT OF NATURAL RESOURCES
PACIFIC CASCADE REGION

WALVILLE QUARRY DEVELOPMENT PLAN

Section 23, Township 13 North, Range 06 West, W.M.

Page 1 of 3

1. Development shall occur in Area A. Development may proceed to Area B once the elevation of Area A has been reduced to the elevation of the Upper Pit Floor. Development in any other area must be approved in writing by the Contract Administrator.
2. Trees shall be cleared to a minimum of $\frac{3}{4}$ of the height of the tallest tree adjacent to the working face. All vegetation including stumps shall be cleared a minimum of 20 feet beyond the top of all working faces.
3. Overburden shall be end hauled to the designated waste area and compacted. Minimal acceptable compaction is achieved as detailed in the COMPACTION LIST.
4. Root wads and organic debris larger than one cubic foot in volume shall be separated from overburden material and piled in a designated vegetative waste area.
5. Pit faces shall not exceed 25 feet in height; solid rock faces shall be sloped no steeper than $\frac{3}{4}$:1, diggable rock faces shall be sloped no steeper than $\frac{1}{2}$:1.
6. Working bench width shall be a minimum of 20 feet.
7. The pit floor shall have continuity of slope, providing drainage to the Southwest at a minimum of 2 percent, unless otherwise approved in writing by Contract Administrator.
8. The location and amount of material to be placed in a stockpile are subject to approval of the Contract Administrator.
9. Oversize material remaining in the rock source at the conclusion of use shall not exceed 5 percent of the total volume mined during that operation. Oversize material is defined as rock fragments larger than two feet in any direction. At the conclusion of operations, oversize material shall be placed in the designated Oversize Stockpile area.

STATE OF WASHINGTON
DEPARTMENT OF NATURAL RESOURCES
PACIFIC CASCADE REGION

P&E RIDGE QUARRY DEVELOPMENT PLAN

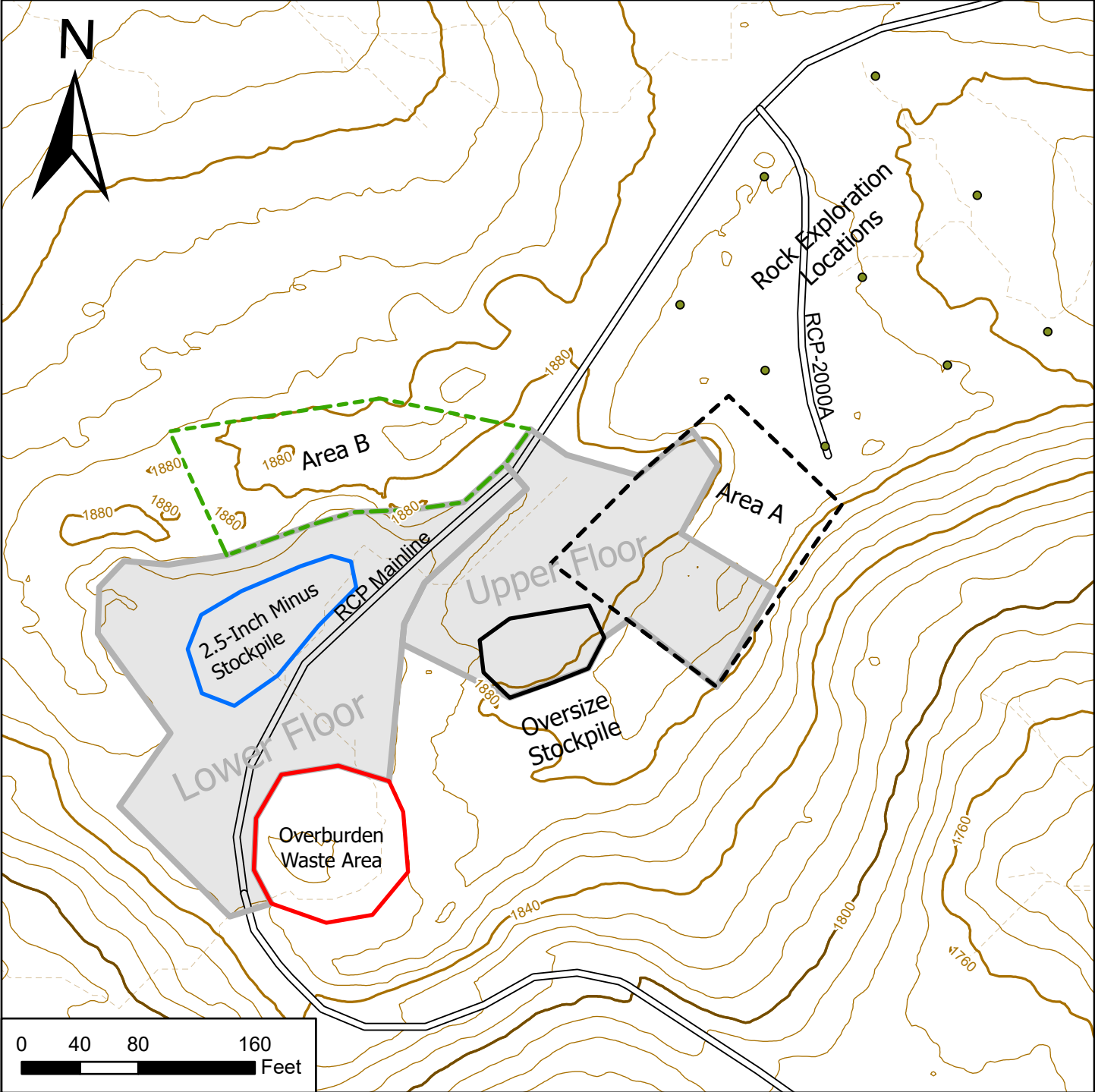
Section 24, Township 13 North, Range 07 West, W.M.

Page 2 of 3

10. All operations shall be carried out in compliance with all regulations 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.
 - b. Safety Standards for Construction Work (296-155 WAC), Washington Department of Labor and Industries.
11. Upon completion of pit operations:
 - a. The pit floor shall be left in a smooth and neat condition. The surface of pit floors and benches must be uniform and free-draining at a minimum 2% outslope gradient.
 - b. All exposed soil in the waste area shall be grass seeded in accordance with Road Plan Clauses 8-15 REVEGETATION and 8-25 GRASS SEED.
 - c. Pit faces and walls shall be scaled and cleared of loose and overhanging material.
 - d. Benches and faces shall have safety berms constructed or access blocked to highway vehicles.
 - e. The area will be left in a condition that will not endanger public safety, damage property, or be hazardous to animal or human life. The site shall be cleared of all temporary structures, equipment and rubbish, and shall be left in a neat and presentable condition.
 - f. Prior to termination of the contract, quarry condition and compliance with all terms of the contract shall be approved in writing by the Contract Administrator.
12. Reclamation will not be required following use.

Walville Quarry Development Plan Pg. 3 of 3

T13R06W Section 23



Legend

- | | | |
|------------------------------|------------------------|---------------------------|
| ● Rock Exploration Locations | — Existing Roads | ▭ Overse Stockpile Area |
| — Contours 10 ft | ▭ Area A | ▭ 2.5-Inch Stockpile Area |
| — Contours 40 ft | ▭ Area B | ▭ Upper Floor |
| — Contours 200 ft | ▭ Overburden Stockpile | ▭ Lower Floor |

RCP ML BRIDGE BACKWALL DETAIL

EXISTING BRIDGE APPROACH EXCAVATION

Excavation shall consist of removal of all materials required to install the concrete block backwall as shown on the RCP MAINLINE BRIDGE BACKWALL (PLANS) and described in this road plan. Purchaser is required to remove all brush and objects not part of the natural soils within the limits of the new embankment. Excavated material shall be hauled to the waste disposal area, in accordance with Clause 4-37 WASTE AREA LOCATION. Purchaser shall pump dry any water encountered during excavation before installation of the concrete block backwall. Pumped water shall be diverted onto the forest floor and not directed into live water.

CONCRETE BLOCK WALL BASE COMPACTION

Compaction of Concrete Block Wall base shall be accomplished by use of a powered mechanical tamper, or vibrating plate attachment to excavator. Three full passes with compaction equipment shall be made over entire base area.

CONCRETE BLOCK WALL BASE ROCK

Concrete Block Wall Base rock, in accordance with Clause 6-28 1 ¼-INCH MINUS CRUSHED ROCK, shall be applied full depth and width in accordance with the RCP MAINLINE BRIDGE BACKWALL (PLANS). Three full passes with compaction equipment shall be made for each lift, where individual lifts shall not exceed 4 inches.

CONCRETE BLOCK PLACEMENT

Concrete Block Wall shall be installed in accordance with the RCP MAINLINE BRIDGE BACKWALL (PLANS) and to the following tolerance.

Dimension	Tolerance
Wall Face Horizontal (inch)	+ 2.0
Wall Face Vertical (inch)	± 1.0

STRUCTURAL BACKFILL INSTALLATION

Structural Backfill placement shall closely follow the erection of each course of the Concrete Blocks. Maximum loose lifts shall not exceed 10 inches. Purchaser shall compact the zone up to the wall blocks without causing damage or distortion of the wall facing. Compact the materials to 90 percent of modified proctor (AASHTO T180) with moisture content of the material within plus or minus 3 percent of optimum.

DRAIN PIPE

Purchaser shall install a drainage collection pipe as shown on the plans. The pipe shall be a perforated or slotted, corrugated High Density Polyethylene (HDPE) pipe. The pipe shall be wrapped in a filter fabric sock. The pipe shall be manufactured in accordance with ASTM D3034.

DRAIN ROCK

Drain Rock shall consist of free-draining granular material, essentially free of wood or other deleterious materials or objectionable materials. Material shall meet the following requirements for grading and quality:

Sieve Size	Percent Passing by Weight
1 inch	100
No.4	16
NO 200	5.0 max

It shall be the Purchaser's responsibility to find commercial sources for Drain Rock and purchase at Purchaser's expense.

STRUCTURAL BACKFILL

Structural backfill shall consist of 1 ¼ Inch Minus Crushed Rock meeting the following grading and quality.

Sieve Size	Percent Passing by Weight
1 ¼ inch square	100%
5/8 inch square	50 - 80
No. 4	35- 50
No. 40	3 - 18
No. 200	7.5 max.
Sand Equivalent	40 min

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

It shall be the Purchaser's responsibility to find commercial sources for the Structural backfill and purchase at Purchaser's expense.

CONCRETE BLOCK

Concrete blocks shall be new/unused. Full blocks shall weigh a maximum of 4320 lbs, and measure nominally 30" x 30" x 60" long. Half blocks shall have a maximum weight of 2160 lbs and measure nominally 30" x 30" x 30".

Blocks shall be of the interlocking design, with one homogeneous pour having one long and one short face without blemishes or chips. Blocks shall have 3" chamfered edges designed to provide 8 sq inches of drainage area per block (12 sq feet of face).

Blocks shall be designed, with two cross keyways equidistant from the ends and sides to provide maximum shear capacity. The blocks shall have a male/female key combination that allows the blocks to be locked parallel or perpendicular to each other. Keyway shall have + ½" tolerance for easy installation.

Blocks shall be manufactured with a smooth face finish.

Each Block shall be furnished with a 7-strand steel (270 Kpa) loop lifting eye located in the center of the standard block between the two crossed keyways. Steel rebar is unacceptable as a lifting eye. Blocks shall be Ultra Block ®, or equivalent.

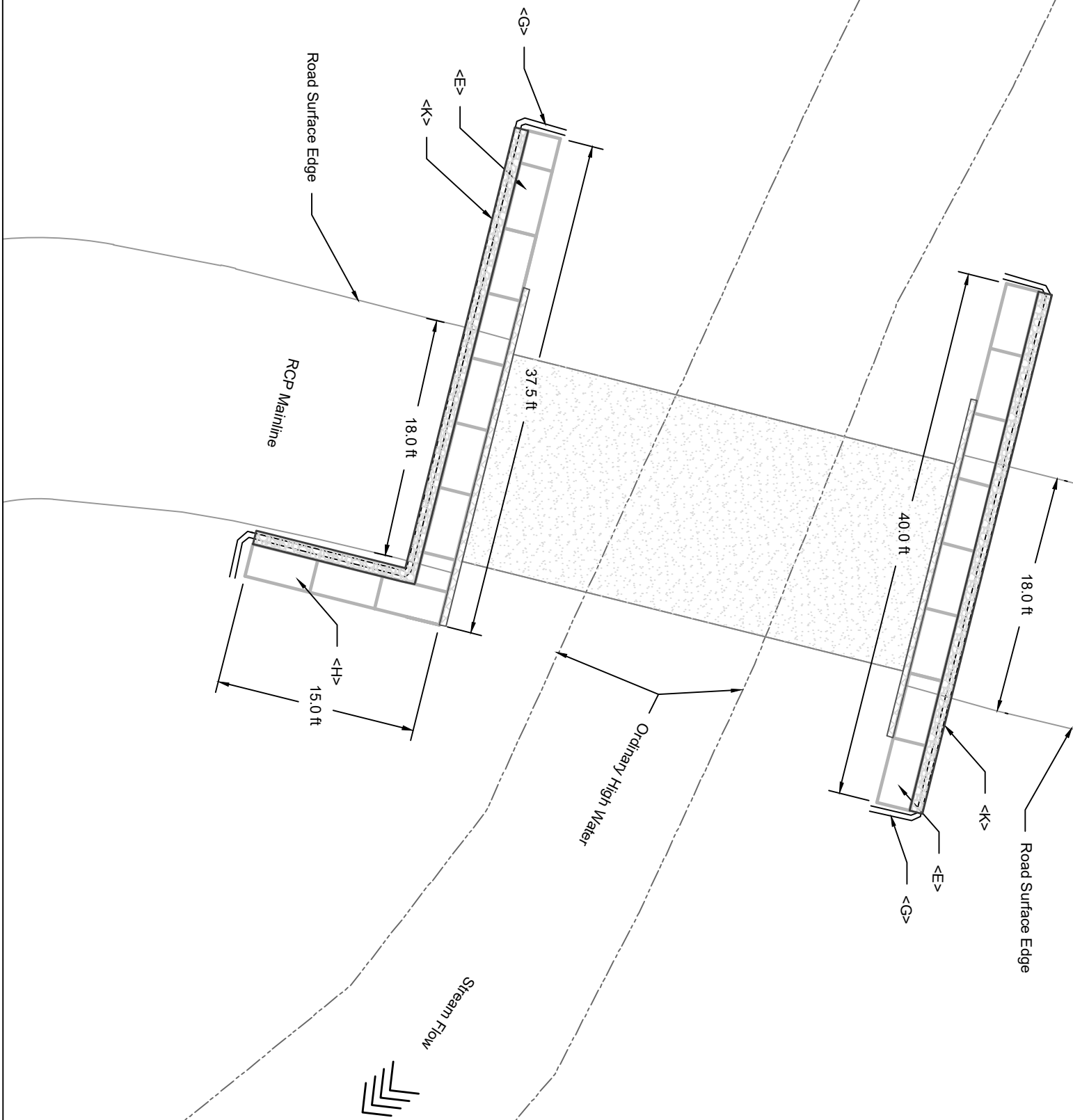
Installation shall be in accordance with the manufacturer's installation data guidelines and the RCP MAINLINE BRIDGE BACKWALL (PLANS).

CONCRETE BLOCK WALL GEOSYNTHETIC

Concrete Block Wall Geosynthetic shall be a geogrid (Miragrid 5XT), or equivalent. Geosynthetic shall have a ultimate tensile strength greater than 4700 lb/ft in the machine direction (ASTM D4632). Installation shall be in accordance with the manufacturer's installation data guidelines and the RCP MAINLINE BRIDGE BACKWALL (PLANS).



Plan View



- <E> Concrete blocks, set vertically level and flush against existing bridge backwalls
- <G> 4-inch perforated drain pipe set in drain rock at a 1% crowned at centerline of wall face and daylight on each end.
- <H> Wingwall composed of concrete blocks
- <K> Install 1' of drain rock at back of wall face and along full length of wall.

Sheet

1/4

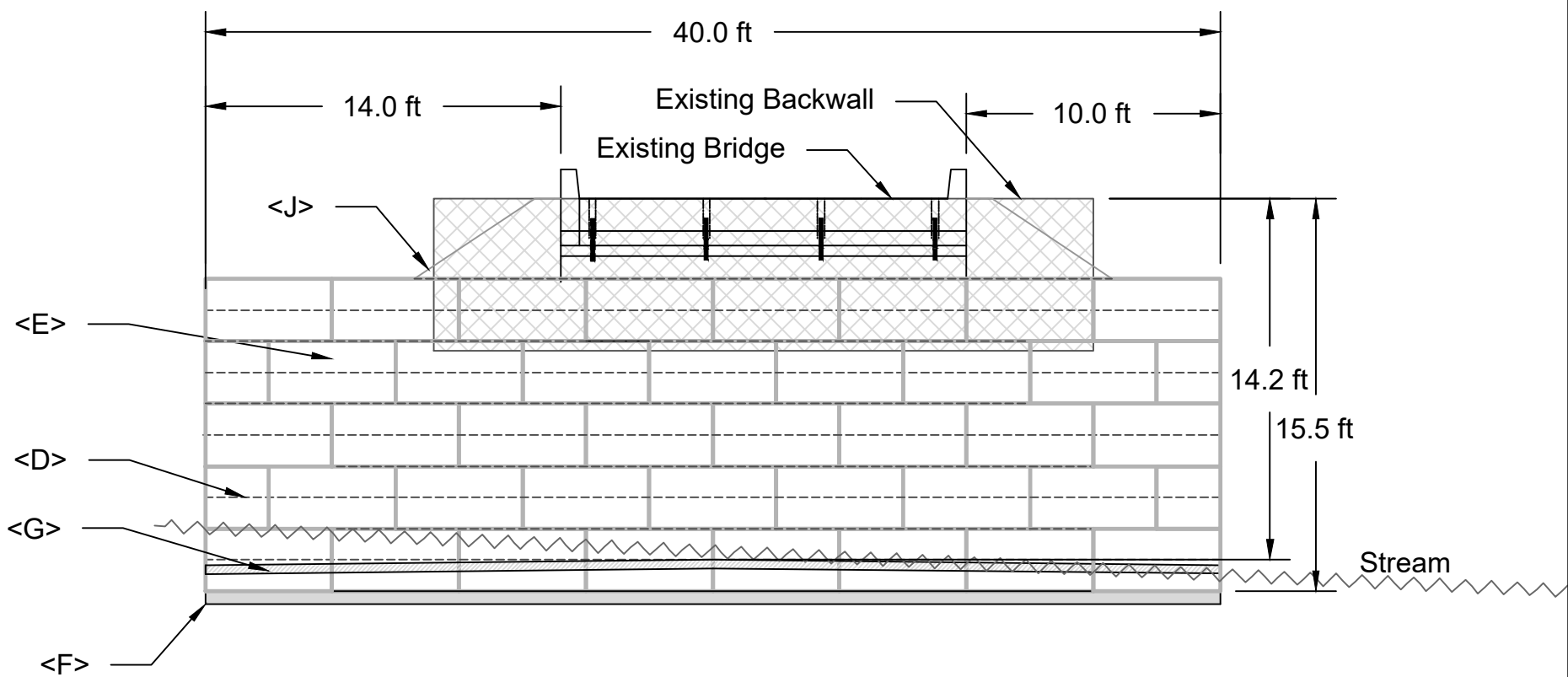
RCP ML BRIDGE BACKWALL (PLANS)

Designed By: Jerry Mizar

No Scale

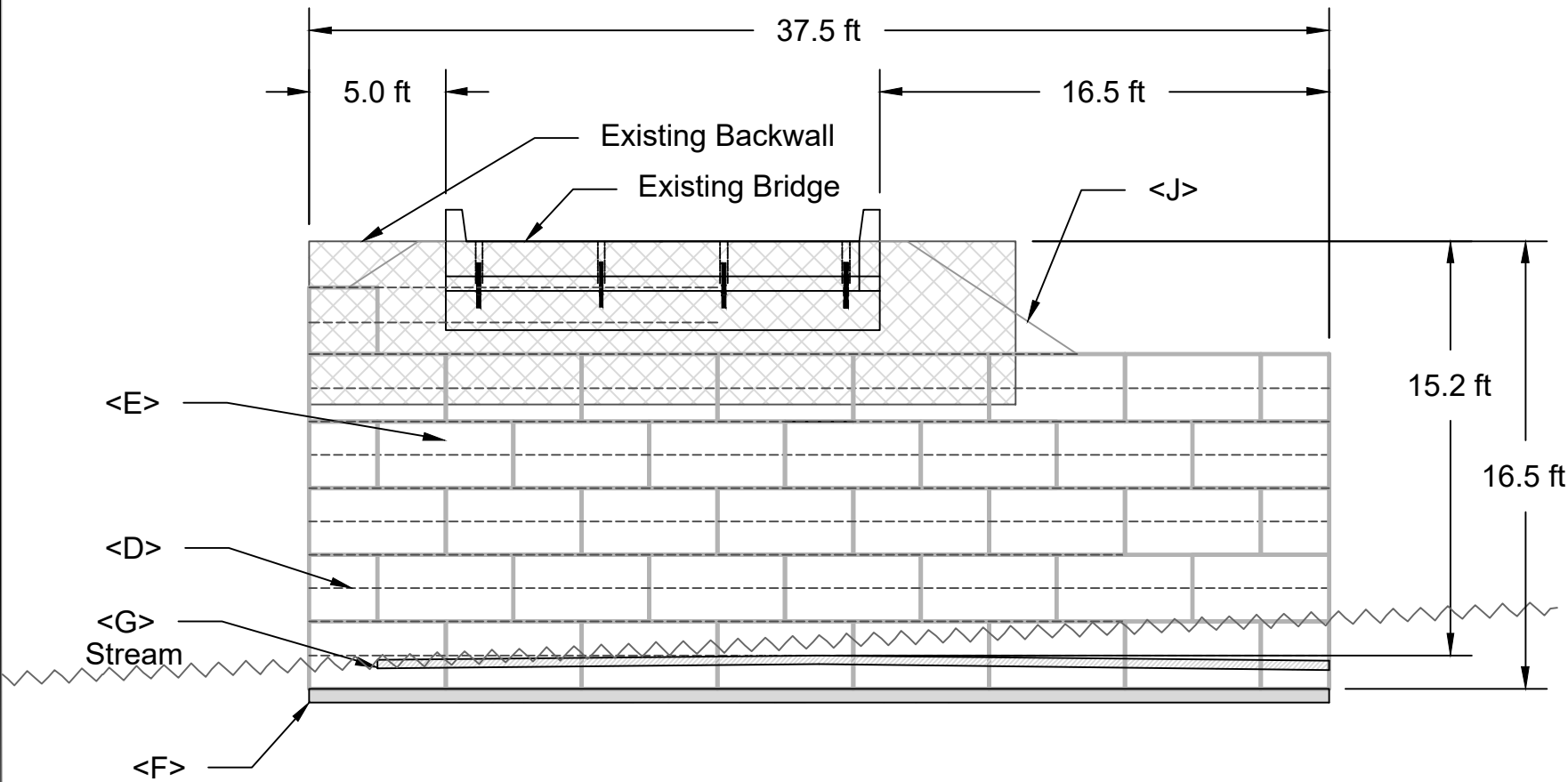
Date: May 21, 2024

Woodside Backwall
Stream Profile View

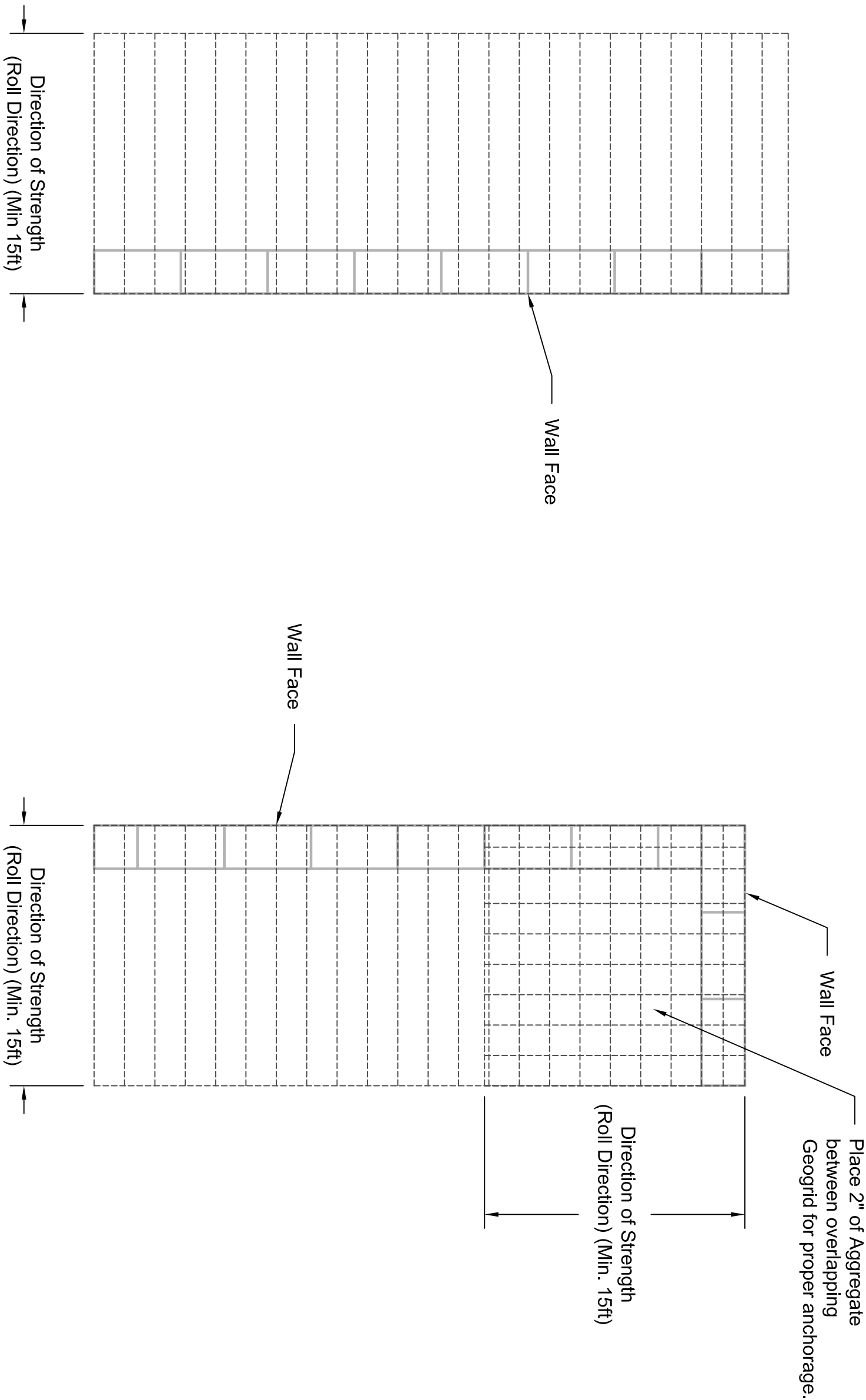


- <D> Geogrid placed at 15 Inch intervals with every other layer extending full width between concrete blocks.
- <E> Concrete blocks, set vertically level and flush against existing bridge backwalls
- <F> 1 1/4 Inch Minus Crushed Rock applied to a minimum compacted depth of 6 inches beneath concrete blocks
- <G> 4-Inch perforated drain pipe set in drain rock at a 1% crowned at centerline of wall face and daylight on each end.
- <J> Road prism. Blend new construction with existing conditions at excavation extents.

Townside Backwall
Stream Profile View



Geogrid Layout



SUMMARY - Road Development Costs

REGION: Pacific Cascade

DISTRICT: Lewis

SALE/PROJECT NAME: Dodge City

AGREEMENT #: 30-107463

ROAD NUMBERS: Optional: RCP-110, RCP-1300 EXT, RCP-1340, RCP-1360, Spur A, Spur B

Required: RCP-Mainline, RCP-110, RCP-100 RCP-100A, RCP-900, RCP-920, RCP-940, RCP-1300, RCP-1350

ROAD STANDARD:	Construction	Reconstruction	Maintenance
NUMBER OF STATIONS:	25.88	15.20	395.19
CLEARING & GRUBBING, EXCAVATION AND FILL, MISC.:	\$15,878.36	\$4,238.30	\$25,197.97
ROAD ROCK:			
Optional:	\$13,052.49	\$0.00	\$0.00
Required:	\$29,278.13	\$94,815.71	\$83,119.55
Total:	\$42,330.62	\$94,815.71	\$83,119.55
STOCKPILE:	-	-	-
CULVERTS AND FLUMES:	\$3,230.40	\$5,910.40	\$5,100.80
STRUCTURES:	-	-	\$58,353.68
MOBILIZATION:	\$2,838.26	\$757.60	\$4,504.14
TOTAL COSTS:	\$64,277.64	\$105,722.01	\$176,276.14
COST PER STATION:	\$2,483.68	\$0.00	\$446.05
ROAD DEACTIVATION & ABANDONMENT COSTS:	\$0.00	\$0.00	\$2,724.49

10% OVERHEAD AND GENERAL EXPENSE =	\$34,627.58
TOTAL (All Roads) =	\$383,627.86
TOTAL (Minus Optional Rock) =	\$370,575.37
SALE VOLUME MBF =	4,648
TOTAL \$/MBF =	\$82.54
TOTAL \$/MBF (Minus Optional Rock) =	\$79.73

Profit and Risk costs are accounted on an individual basis.

SUMMARY OF ROAD

Sale:		Dodge City		Road:		RCP-Mainline	
Required		Required		Required		Required	
Pre-Haul Maintenance-	289+30	Reconstruction -	1+20	Construction -		Construction -	
	5.48		0.02		0.00		0.00
	stations		stations		stations		stations
	miles		miles		miles		miles
Required Abandonment-		Optional		Optional		Optional	
		Reconstruction -	0+00	Construction -	0+00	Construction -	0+00
			0.00		0.00		0.00
			stations		stations		stations
			miles		miles		miles

PRE-HAUL MAINTENANCE

CLEARING

Roadside Brushing	0.85	miles	@	\$1,170.00 per mile =	\$994.50
-------------------	------	-------	---	-----------------------	----------

EXCAVATION

Reconstruct ditch-		33.40	stations @	\$215.00	per station	\$7,181.00
Clean ditch -	sta. 190+70 to 198+75	8.05	stations @	\$39.81	per station	\$320.47

MISC.

Grade and shape existing road surface -	79.66	stations @	\$18.25	per station	\$1,453.80
Spot grade and shape existing road surface -	49.10	stations @	\$10.95	per station	\$537.65
Roll shaped road surface w/ vibratory roller prior to rocking -	39.41	stations @	\$9.70	per station	\$382.28
Clean culvert inlet and outlet -	4.00	@	\$45.00	each	\$180.00

TOTAL CLEARING, GRUBBING, EXCAVATION, FILL, and MISC.	\$11,049.70
---	-------------

RECONSTRUCTION

CLEARING/GRUBBING

Scattering Organic Debris	0.84	sta @	\$140.00	per sta	\$117.60
---------------------------	------	-------	----------	---------	----------

EXCAVATION

Grade and shape subgrade -	0.84	stations @	\$14.60	per station	\$12.26
----------------------------	------	------------	---------	-------------	---------

MISC.

Roll subgrade w/ vibratory roller prior to rocking -	0.84	stations @	\$12.12	per station	\$10.18
Grass seed and fertilize -	10.00	lbs @	\$15.00	per lbs	<u>\$150.00</u>

TOTAL CLEARING, GRUBBING, EXCAVATION, FILL, and MISC.	\$290.04
---	----------

CULVERTS - MATERIALS & INSTALLATION

<u>Culverts</u>					
100	LF of 18"	<u>\$2,672.00</u>	0	LF of 24"	\$0.00
		\$2,672.00			\$0.00

<u>Culvert Stakes & Markers</u>	
3 markers	\$24.00

TOTAL CULVERTS	\$2,672.00
----------------	------------

ROCK

0+00 to	290+50	618	cy. of	2 1/2 Inch Minus (@	\$9.07	per c.y.=	\$5,605.26
Culvert Backfill	0+00	60	cy. of	2 1/2 Inch Minus	@	\$9.07	per c.y.=	\$544.20
Spot Rock	0+00	40	cy. of	Crushed Rock				
Inlet Headwall	0+00	1.5	cy. of	2 1/2 Inch Minus (@	\$9.07	per c.y.=	\$362.80
Energy Dissipator	0+00	1.5	cy. of	Quarry Spalls	@	\$18.66	per c.y.=	\$27.99
0+00 to	290+50	336	cy. of	Quarry Spalls	@	\$18.66	per c.y.=	\$27.99
Structural Backfill and Bedding	0+00	1,306	cy. of	Select Pit Run	@	\$14.16	per c.y.=	\$4,757.76
Drain Rock	0+00	60	cy. of	1 1/4 Inch Minus	@	\$38.29	per c.y.=	\$50,006.74
Surfacing	0+00	40	cy. of	Drain Rock	@	\$43.29	per c.y.=	\$2,597.40
Road Ballast	0+00	85	cy. of	1 1/4 Inch Minus	@	\$38.29	per c.y.=	\$1,531.60
				Select Pit Run	@	\$14.16	per c.y.=	\$1,203.60

TOTAL ROCK	\$66,665.34
------------	-------------

ADDITIONAL REQUIREMENTS

Purchase Concrete Blocks	98.00	blocks @	\$157.86	total	\$15,470.28
Purchase Geogrid	11.00	rolls @	\$1,218.00	per roll	\$13,398.00
Purchase Horizontal Drain Pipe	100.00	ft @	\$1.65	per ft	\$165.00
Road Approach Excavation and Endhaul	20.00	hours @	\$430.00	per hour	\$8,600.00
Cutting Existing Backwall Supports	3.00	hours @	\$41.60	per hour	\$124.80
Concrete Block Wall Base Preparation	3.00	hours @	\$327.60	per hour	\$982.80
Concrete Block Wall Placement	12.00	hours @	\$363.20	per hour	\$4,358.40
Horizontal Drain Installation	2.00	hours @	\$363.20	per hour	\$726.40
Geogrid Installation and Backfill	40.00	hours @	\$363.20	per hour	\$14,528.00

TOTAL ADDITIONAL REQUIREMENTS	\$58,353.68
-------------------------------	-------------

SUBTOTAL	\$139,030.76
----------	--------------

MOBILIZATION

SUBTOTAL	\$2,026.98
----------	------------

OVERHEAD & GENERAL EXPENSES

10%	SUBTOTAL	\$14,105.77
-----	----------	-------------

TOTAL	\$155,163.51
-------	--------------

Optional Rock? ☐ NO

COST PER STATION	\$534.13
-------------------------	-----------------

SUMMARY OF ROAD

Sale:	Dodge City			Road:	RCP-100		
Required				Required			
Pre-Haul Maintenance-	46+30	stations	Required Reconstruction -		stations	Required Construction -	
	0.88	miles		0.00	miles		0.00
Required Abandonment-		stations	Optional Reconstruction -	0+00	stations	Optional Construction -	0+00
	0.00	miles		0.00	miles		0.00

PRE-HAUL MAINTENANCE

CLEARING							
Roadside Brushing	0.88	miles	@	\$1,170.00	per mile =	\$1,029.60	
EXCAVATION							
Construct ditchouts -	1.00		@	\$71.67	each	\$71.67	
Clean ditch -	1.75	stations	@	\$39.81	per station	\$69.67	
MISC.							
Grade and shape existing road surface -	46.30	stations	@	\$18.25	per station	\$844.98	
Roll shaped road surface w/ vibratory roller prior to rocking -	5.85	stations	@	\$9.70	per station	\$56.75	
Maintain turnarounds -	1.00		@	\$134.62	each	\$134.62	
Clean culvert inlet and outlet -	2.00		@	\$41.60	each	\$83.20	
Maintain ditchouts -	2.00		@	\$47.30	each	\$94.60	
TOTAL CLEARING, GRUBBING, EXCAVATION, FILL, and MISC.							\$2,385.09
ROCK							
0+00 to	46+30	50	cy. of	2 1/2 Inch Mini	@	\$13.44	per c.y.= \$672.00
Spot Rock	0+00	90	cy. of	2 1/2 Inch Mini	@	\$13.44	per c.y.= \$1,209.60
Energy Dissipator	0+00	5.0	cy. of	Quarry Spalls	@	\$23.53	per c.y.= \$117.65
						TOTAL ROCK	\$1,999.25
						SUBTOTAL	\$4,384.34
MOBILIZATION						SUBTOTAL	\$426.34
OVERHEAD & GENERAL EXPENSES						10%	
						SUBTOTAL	\$481.07
						TOTAL	\$5,291.75
Optional Rock?	NO					COST PER STATION	\$114.29

SUMMARY OF ROAD

Sale: **Dodge City**

Road: **RCP-100A**

Activity	Required	Optional	Construction
Pre-Haul Maintenance-	$\frac{8+10}{0.15}$ stations miles		
Required Abandonment-	$\frac{12+30}{0.23}$ stations miles	$\frac{0+00}{0.00}$ stations miles	$\frac{0+00}{0.00}$ stations miles

PRE-HAUL MAINTENANCE

MISC.

Grade and shape existing road surface -	8.10	stations @	\$18.25	per station	\$147.83	
Roll shaped road surface w/ vibratory roller prior to rocking -	2.50	stations @	\$9.70	per station	\$24.25	
			TOTAL CLEARING, GRUBBING, EXCAVATION, FILL, and MISC.			\$172.08

ROCK

Spot Rock	0+00	50	cy. of	2 1/2 Inch Minus Crushed Rock	@	\$14.52	per c.y.=	<u>\$726.00</u>	
								TOTAL ROCK	\$726.00

ABANDONMENT

Construct waterbar -	12.00	@	\$71.67	each	\$860.04	
Construct Spoil Berm -	1.00	@	\$215.00	each	\$215.00	
Grass seed and fertilize -	45.20	lbs @	\$15.00	per lbs	\$678.00	
TOTAL ADDITIONAL REQUIREMENTS						\$1,753.04

SUBTOTAL	\$2,651.12
----------	------------

MOBILIZATION

SUBTOTAL	\$30.76
----------	---------

OVERHEAD & GENERAL EXPENSES

10%	SUBTOTAL	\$268.19
-----	----------	----------

TOTAL	\$2,950.07
-------	------------

Optional Rock?

COST PER STATION	\$364.21
-------------------------	-----------------

SUMMARY OF ROAD

Sale:	<u>Dodge City</u>			Road:	<u>RCP-110</u>		
Required				Required			
Pre-Haul Maintenance-	<div>0+00</div>	stations	Required Reconstruction -	<div></div>	stations	Required Construction -	<div>16+38</div>
	<div>0.00</div>	miles		<div>0.00</div>	miles		<div>0.31</div>
Required Abandonment-	<div></div>	stations	Optional Reconstruction -	<div>0+00</div>	stations	Optional Construction -	<div></div>
	<div>0.00</div>	miles		<div>0.00</div>	miles		<div>0.00</div>

CONSTRUCTION

CLEARING/GRUBBING							
Scattering Organic Debris	16.38	sta @	\$280.00	per sta	\$4,586.40		
Remove large stumps -	3.00	@	\$350.00	each	\$1,050.00		
EXCAVATION							
Road Construction Earthwork	16.38	sta. @	\$152.17	per sta. =	\$2,492.54		
Grade and shape subgrade -	16.38	stations @	\$14.60	per station	\$239.15		
MISC.							
Roll subgrade w/ vibratory roller prior to rocking -	16.38	stations @	\$12.12	per station	\$198.53		
Grass seed and fertilize -	42.00	lbs @	\$15.00	per lbs	\$630.00		
TOTAL CLEARING, GRUBBING, EXCAVATION, FILL, and MISC.							\$9,196.62

CULVERTS - MATERIALS & INSTALLATION

<u>Culverts</u>							
90	LF of 18"	\$2,404.80	0	LF of 24"	\$0.00		
		\$2,404.80			\$0.00		
<u>Culvert Stakes & Markers</u>							
2 markers		\$16.00					
		\$16.00					
TOTAL CULVERTS							\$2,420.80

ROCK

Inlet Headwall	0+00	1.5	cy. of	Quarry Spalls	@	\$23.73	per c.y. =	\$35.60	
Energy Dissipator	0+00	1.0	cy. of	Quarry Spalls	@	\$23.73	per c.y. =	\$23.73	
0+00 to	16+38	1,560	cy. of	Select Pit Run	@	\$18.73	per c.y. =	\$29,218.80	
TOTAL ROCK									\$29,278.13
SUBTOTAL									\$40,895.55

MOBILIZATION

SUBTOTAL \$1,643.90

OVERHEAD & GENERAL EXPENSES

10% SUBTOTAL \$4,253.95

Optional Rock?

NO

 TOTAL \$46,793.40

COST PER STATION \$2,856.74

SUMMARY OF ROAD

Sale:	<u>Dodge City</u>			Road:	<u>RCP-110</u>		
Required				Required			
Pre-Haul Maintenance-	0+00	stations	Required Reconstruction -		stations	Required Construction -	
	0.00	miles		0.00	miles		
Required Abandonment-		stations	Optional Reconstruction -	11+55	stations	Optional Construction -	0+00
	0.00	miles		0.22	miles		0.00
							miles

RECONSTRUCTION

CLEARING/GRUBBING							
Scattering Organic Debris	11.55	sta	@	\$140.00	per sta	\$1,617.00	
EXCAVATION							
Pull and clean ditch-	11.55	stations	@	\$67.19	per station	\$776.04	
Construct ditchouts -	1.00		@	\$71.67	each	\$71.67	
Grade and shape subgrade -	11.55	stations	@	\$14.60	per station	\$168.63	
MISC.							
Roll subgrade w/ vibratory roller prior to rocking -	11.55	stations	@	\$12.12	per station	\$139.99	
Grass seed and fertilize -	10.80	lbs	@	\$15.00	per lbs	\$162.00	
TOTAL CLEARING, GRUBBING, EXCAVATION, FILL, and MISC.							\$2,935.33

CULVERTS - MATERIALS & INSTALLATION

<u>Culverts</u>							
120	LF of 18"	\$3,206.40	0	LF of 24"	\$0.00		
		\$3,206.40			\$0.00		
<u>Culvert Stakes & Markers</u>							
4 markers		\$32.00					
		\$32.00					
TOTAL CULVERTS							\$3,238.40

ROCK

Inlet Headwall	0+00	2.0	cy. of	Quarry Spalls	@	\$23.73	per c.y. =	\$47.46	
Energy Dissipator	0+00	2.0	cy. of	Quarry Spalls	@	\$23.73	per c.y. =	\$47.46	
16+38 to	27+93	1,363	cy. of	Select Pit Run	@	\$18.23	per c.y. =	\$24,847.49	
TOTAL ROCK									\$24,942.41
SUBTOTAL									\$31,135.54

MOBILIZATION

SUBTOTAL \$524.69

OVERHEAD & GENERAL EXPENSES

10% SUBTOTAL \$3,166.02

Optional Rock? TOTAL \$34,826.25

COST PER STATION \$3,015.26

SUMMARY OF ROAD

Sale: **Dodge City**

Road: **RCP-900**

Activity	Required	Optional	Activity	Required	Optional	Activity	Required	Optional
Pre-Haul Maintenance-	31+00 0.59 stations miles		Reconstruction -	0+00 0.00 stations miles		Construction -	0+00 0.00 stations miles	
Required Abandonment-	0.00 stations miles		Optional Reconstruction -	0.00 miles		Optional Construction -	0+00 0.00 stations miles	

PRE-HAUL MAINTENANCE

EXCAVATION

Construct ditchouts -	4.00	@	\$71.67	each	\$286.68
Pull and clean ditch-	31.00	stations @	\$215.00	per station	\$6,665.00

MISC.

Grade and shape existing road surface -	20.25	stations @	\$18.25	per station	\$369.56
Roll shaped road surface w/ vibratory roller prior to rocking -	8.60	stations @	\$9.70	per station	\$83.42

TOTAL CLEARING, GRUBBING, EXCAVATION, FILL, and MISC.

\$7,404.66

CULVERTS - MATERIALS & INSTALLATION

<u>Culverts</u>				
60	LF of 18"	\$1,603.20	0	LF of 24"
		\$1,603.20		\$0.00
<u>Culvert Stakes & Markers</u>				\$0.00
2	markers	\$16.00		
		\$16.00		
				<u>TOTAL CULVERTS</u>

ROCK

Culvert Backfill	0+00	40	cy. of	2 1/2 Inch Minus Crushed Rock	@	\$10.04	per c.y. =	\$401.60
Spot Rock	0+00	50	cy. of	2 1/2 Inch Minus Crushed Rock	@	\$10.04	per c.y. =	\$502.00
Inlet Headwall	0+00	1.0	cy. of	Quarry Spalls	@	\$19.63	per c.y. =	\$19.63
Energy Dissipator	0+00	1.0	cy. of	Quarry Spalls	@	\$19.63	per c.y. =	\$19.63
								TOTAL ROCK

TOTAL ROCK

\$942.86

SUBTOTAL

\$9,966.72

MOBILIZATON

SUBTOTAL

\$1,323.58

OVERHEAD & GENERAL EXPENSES

10%

SUBTOTAL

\$1,129.03

TOTAL

\$12,419.33

Optional Rock? | NO |

COST PER STATION

\$400.62

SUMMARY OF ROAD

Sale:	<u>Dodge City</u>			Road:	<u>RCP-920</u>		
Required			Required			Required	
Pre-Haul Maintenance-	<div>6+35</div> <div>0.12</div>	stations miles	Reconstruction -	<div></div> <div>0.00</div>	stations miles	Construction -	<div></div> <div>0.00</div>
Required Abandonment-	<div></div> <div>0.00</div>	stations miles	Optional	<div>0+00</div> <div>0.00</div>	stations miles	Optional	<div>0+00</div> <div>0.00</div>
			Reconstruction -			Construction -	

PRE-HAUL MAINTENANCE

EXCAVATION							
Reconstruct ditch-	6.35	stations @	\$215.00	per station	\$1,365.25		
MISC.							
Grade and shape existing road surface -	6.35	stations @	\$18.25	per station	\$115.89		
Roll shaped road surface w/ vibratory roller prior to rocking -	6.35	stations @	\$9.70	per station	\$61.60		
TOTAL CLEARING, GRUBBING, EXCAVATION, FILL, and MISC.							\$1,542.74

CULVERTS - MATERIALS & INSTALLATION

<u>Culverts</u>							
30	LF of 18"	\$801.60	0	LF of 24"	\$0.00		
		\$801.60			\$0.00		
<u>Culvert Stakes & Markers</u>							
1 markers		\$8.00					
		\$8.00				TOTAL CULVERTS	\$809.60

ROCK

Inlet Headwall	0+00	0.5	cy. of	Quarry Spalls	@	\$20.62	per c.y. =	\$10.31	
Energy Dissipator	0+00	0.5	cy. of	Quarry Spalls	@	\$20.62	per c.y. =	\$10.31	
0+00 to	6+35	454	cy. of	Select Pit Run	@	\$15.12	per c.y. =	\$6,864.48	
TOTAL ROCK									\$6,885.10
SUBTOTAL									\$9,237.44

MOBILIZATION

SUBTOTAL								\$275.77
----------	--	--	--	--	--	--	--	-----------------

OVERHEAD & GENERAL EXPENSES

SUBTOTAL								\$951.32
TOTAL								\$10,464.53
Optional Rock?	<div>NO</div>	COST PER STATION						\$1,647.96

SUMMARY OF ROAD

Sale: Dodge City

Road: RCP-940

Activity	Required	Optional
Pre-Haul Maintenance-	3+25 0.06 stations miles	
Reconstruction -	0.00 stations miles	
Required Abandonment-		0+00 0.00 stations miles
		Optional Reconstruction - 0+00 0.00 stations miles
		Construction - 0.00 stations miles

PRE-HAUL MAINTENANCE

EXCAVATION

Reconstruct ditch-	3.25	stations @	\$215.00	per station	\$698.75
--------------------	------	------------	----------	-------------	----------

MISC.

Grade and shape existing road surface -	3.25	stations @	\$18.25	per station	\$59.31
---	------	------------	---------	-------------	---------

Roll shaped road surface w/ vibratory roller prior to rocking -	3.25	stations @	\$9.70	per station	\$31.53
---	------	------------	--------	-------------	---------

Construct turnaround -	1.00	@	\$134.62	each	<u>\$134.62</u>
------------------------	------	---	----------	------	-----------------

TOTAL CLEARING, GRUBBING, EXCAVATION, FILL, and MISC.	\$924.21
---	----------

ROCK

0+00	to	3+25	259	cy. of	Select Pit Run	@	\$15.46	per c.y. =	<u>\$4,004.14</u>
------	----	------	-----	--------	----------------	---	---------	------------	-------------------

TOTAL ROCK	\$4,004.14
------------	------------

SUBTOTAL	\$4,928.35
----------	------------

MOBILIZATION

SUBTOTAL	\$0.00
----------	--------

OVERHEAD & GENERAL EXPENSES

10%	SUBTOTAL	\$492.84
-----	----------	-----------------

Optional Rock?

TOTAL	\$5,421.19
-------	------------

COST PER STATION	\$1,668.06
-------------------------	-------------------

SUMMARY OF ROAD

Sale:

Dodge City

Road:

Spur A

Required
Pre-Haul Maintenance-

0+00
0.00

stations
miles

Required Reconstruction - stations
0.00 miles

Required Construction - stations
0.00 miles

Required Abandonment- 0.00 stations miles

Optional
Reconstruction - 0+00 stations
0.00 miles

Optional Construction - $\frac{1+75}{0.03}$ stations miles

CONSTRUCTION

CLEARING/GRUBBING

Scattering Organic Debris

1.75	sta @	\$280.00	per sta	\$490.00
------	-------	----------	---------	----------

EXCAVATION

Road Construction Earthwork

1.75	sta. @	\$152.17	per sta. =	\$266.30
------	--------	----------	------------	----------

Grade and shape subgrade -

1.75	stations @	\$14.60	per station	\$25.55
------	------------	---------	-------------	---------

MISC.

Roll subgrade w/ vibratory roller prior to rocking -

1.75	stations @	\$12.12	per station	\$21.21
------	------------	---------	-------------	---------

Grass seed and fertilize -

4.40	lbs @	\$15.00	per lbs	<u>\$66.00</u>
------	-------	---------	---------	----------------

TOTAL CLEARING, GRUBBING, EXCAVATION, FILL, and MISC.	\$869.06
---	----------

ROCK

0+00	to	1+75	210	cy. of	Select Pit Run	@	\$14.67	per c.y. =	<u>\$3,080.70</u>
									TOTAL ROCK

\$3,080.70

SUBTOTAL	\$3,949.76
----------	------------

MOBILIZATION

SUBTOTAL	\$155.34
----------	----------

OVERHEAD & GENERAL EXPENSES

10%	SUBTOTAL	\$410.51
-----	----------	-----------------

TOTAL	\$4,515.61
-------	------------

Optional Rock? ☐ YES

COST PER STATION	\$2,580.35
-------------------------	-------------------

Sale:		<u>Dodge City</u>		Road:		<u>Spur B</u>	
Required	<input type="text"/>	Required	<input type="text"/>	Required	<input type="text"/>	Required	<input type="text"/>
Pre-Haul Maintenance-	0.00	Reconstruction -	0+00	Construction -	0.00	Construction -	0.00
	stations		stations		stations		stations
	miles		miles		miles		miles
Required	<input type="text"/>	Optional	<input type="text"/>	Optional	<input type="text"/>	Optional	<input type="text"/>
Abandonment-	0.00	Reconstruction -	0.00	Construction -	2+60	Construction -	0.05
	stations		stations		stations		stations
	miles		miles		miles		miles

CLEARING/GRUBBING

Scattering Organic Debris	2.60	sta @	\$280.00	per sta	\$728.00
---------------------------	------	-------	----------	---------	----------

Road Construction Earthwork	2.60	sta. @	\$152.17	per station	\$395.64
Grade and shape subgrade -	2.60	stations @	\$14.60	per station	\$37.96

Roll subgrade w/ vibratory roller prior to rocking -	2.60	stations @	\$12.12	per station	\$31.51
Construct turnaround @ sta. -	1.00	@	\$134.62	each	\$134.62
Construct landing -	1.00	@	\$538.46	each	\$538.46
Grass seed and fertilize -	6.80	lbs @	\$15.00	per lbs	\$102.00

TOTAL CLEARING, GRUBBING, EXCAVATION, FILL, and MISC.	\$1,968.19
---	------------

<u>Culverts</u>					
30	LF of 18"	<u>\$801.60</u>	0	LF of 24"	\$0.00
		\$801.60			\$0.00
<u>Culvert Stakes & Markers</u>					
1 markers		<u>\$8.00</u>			
		\$8.00			
				<u>TOTAL CULVERTS</u>	\$809.60

Inlet Headwall	0+00	0.5	cy. of	Quarry Spalls	@	\$19.26	per c.y.=	\$9.63	
Energy Dissipator	0+00	0.5	cy. of	Quarry Spalls	@	\$19.26	per c.y.=	\$9.63	
0+00 to	2+60	286	cy. of	Select Pit Run	@	\$14.26	per c.y.=	\$4,078.36	
									\$4,097.62

SUBTOTAL	\$6,875.41
----------	------------

SUBTOTAL	\$351.81
----------	----------

10%	SUBTOTAL	\$722.72
-----	----------	----------

Optional Rock?	YES		TOTAL	\$7,747.94
			COST PER STATION	\$3,057.67

COST PER STATION	\$3,057.67
-------------------------	-------------------

SUMMARY OF ROAD

Sale:	<u>Dodge City</u>			Road:	<u>RCP-1300</u>		
Required				Required			
Pre-Haul Maintenance-	<div>5+25</div> <div>0.10</div>	stations	miles	Reconstruction -	<div></div> <div>0.00</div>	stations	miles
Required Abandonment-	<div></div> <div>0.00</div>	stations	miles	Optional			
				Reconstruction -	<div>0+00</div> <div>0.00</div>	stations	miles
				Optional			
				Construction -	<div>0+00</div> <div>0.00</div>	stations	miles

PRE-HAUL MAINTENANCE

EXCAVATION							
Construct turnaround -	1.00	@		\$134.62	each		\$134.62
Reconstruct ditch -	5.25	stations @		\$215.00	per station		\$1,128.75
MISC.							
Grade and shape existing road surface -	5.25	stations @		\$18.25	per station		\$95.81
Roll shaped road surface w/ vibratory roller prior to rocking -	5.25	stations @		\$9.70	per station		\$50.93
TOTAL CLEARING, GRUBBING, EXCAVATION, FILL, and MISC.							\$1,410.11

ROCK

0+00	to	5+25	174	cy. of	2 1/2 Inch Minus Crushed	@	\$6.97	per c.y. =	<div>\$1,212.78</div>	
TOTAL ROCK										\$1,212.78
SUBTOTAL										\$2,622.89

MOBILIZATION

SUBTOTAL										\$252.06
----------	--	--	--	--	--	--	--	--	--	-----------------

SUBTOTAL										\$287.50
----------	--	--	--	--	--	--	--	--	--	-----------------

TOTAL										\$3,162.45
COST PER STATION										\$602.37

Optional Rock?

NO

SUMMARY OF ROAD

Sale:	Dodge City		Road:	RCP-1300 Ext	
Required			Required		
Pre-Haul Maintenance-	0+00	stations	Reconstruction -		stations
	0.00	miles		0.00	miles
Required Abandonment-		stations	Optional		stations
	0.00	miles	Reconstruction -	2+45	stations
				0.05	miles
			Optional		stations
			Construction -	0+00	stations
				0.00	miles

RECONSTRUCTION

CLEARING/GRUBBING					
Scattering Organic Debris	2.45	sta	@	\$140.00	per sta \$343.00
EXCAVATION					
Pull and clean ditch-	2.45	stations	@	\$67.19	per station \$164.62
Grade and shape subgrade -	2.45	stations	@	\$14.60	per station \$35.77
MISC.					
Roll subgrade w/ vibratory roller prior to rocking -	2.45	stations	@	\$12.12	per station \$29.69
Reconstruct turnaround @ sta. -	1.00	@		\$134.62	each \$134.62
Reconstruct landing -	1.00	@		\$269.23	each \$269.23
Grass seed and fertilize -	2.40	lbs	@	\$15.00	per lbs \$36.00
TOTAL CLEARING, GRUBBING, EXCAVATION, FILL, and MISC.					\$1,012.93

ROCK					
5+25 to 7+70	266	cy. of	Select Pit Run	@	\$12.06 per c.y.= \$3,207.96
TOTAL ROCK					\$3,207.96
SUBTOTAL					\$4,220.89

MOBILIZATION					SUBTOTAL \$181.06
--------------	--	--	--	--	-------------------

OVERHEAD & GENERAL EXPENSES					10% SUBTOTAL \$440.20
-----------------------------	--	--	--	--	-----------------------

Optional Rock?					NO
TOTAL					\$4,842.15
COST PER STATION					\$1,976.39

SUMMARY OF ROAD

Sale:	Dodge City			Road:	RCP-1350		
Required				Required			
Pre-Haul Maintenance-	3+34	stations	Required Reconstruction -		stations	Required Construction -	
	0.06	miles		0.00	miles		0.00
Required Abandonment-		stations	Optional Reconstruction -	0+00	stations	Optional Construction -	0+00
	0.00	miles		0.00	miles		0.00

PRE-HAUL MAINTENANCE

MISC.								
Grade and shape existing road surface -	3.34	stations @	\$18.25	per station	\$60.96			
Roll shaped road surface w/ vibratory roller prior to rocking -	3.35	stations @	\$9.70	per station	\$32.50			
			TOTAL CLEARING, GRUBBING, EXCAVATION, FILL, and MISC.					\$93.46

ROCK

0+00	to	3+34	68	cy. of	Select Pit Run	@	\$10.06	per c.y. =	\$684.08	
									TOTAL ROCK	\$684.08
									SUBTOTAL	\$777.54

MOBILIZATION

									SUBTOTAL	\$16.71
--	--	--	--	--	--	--	--	--	----------	---------

OVERHEAD & GENERAL EXPENSES

				10%					SUBTOTAL	\$79.43
									TOTAL	\$873.68
Optional Rock?		NO							COST PER STATION	\$261.58

SUMMARY OF ROAD

Sale:	Dodge City		Road:	RCP-1360	
Required			Required		
Pre-Haul Maintenance-	0+00	stations	Reconstruction -		stations
	0.00	miles		0.00	miles
Required Abandonment-		stations	Optional	0+00	stations
	0.00	miles	Reconstruction -	0.00	miles
			Optional	4+25	stations
			Construction -	0.08	miles

CONSTRUCTION

CLEARING/GRUBBING					
Scattering Organic Debris	4.25	sta @	\$280.00	per sta	\$1,190.00
EXCAVATION					
Road Construction Earthwork	4.25	sta. @	\$152.17	per sta. =	\$646.72
Construct ditchouts -	1.00	@	\$71.67	each	\$71.67
Grade and shape subgrade -	4.25	stations @	\$14.60	per station	\$62.05
MISC.					
Roll subgrade w/ vibratory roller prior to rocking -	4.25	stations @	\$12.12	per station	\$51.51
Construct turnaround @ sta. -	1.00	@	\$134.62	each	\$134.62
Construct landing -	1.00	@	\$538.46	each	\$538.46
Grass seed and fertilize -	10.80	lbs @	\$15.00	per lbs	\$162.00
TOTAL CLEARING, GRUBBING, EXCAVATION, FILL, and MISC.					\$2,857.03

ROCK

0+00	to	4+25	424	cy. of	Select Pit Run	@	\$9.98	per c.y. =	\$4,231.52	
TOTAL ROCK										\$4,231.52
SUBTOTAL										\$7,088.55

MOBILIZATION

OVERHEAD & GENERAL EXPENSES		10%	SUBTOTAL	\$759.92
			TOTAL	\$8,359.16
Optional Rock?	<div>YES</div>		COST PER STATION	\$1,966.86

SUMMARY OF ROAD

Sale:	Dodge City		Road:	RCP-1000	
Required			Required		
Pre-Haul Maintenance-	2+30	stations	Reconstruction -		stations
	0.04	miles		0.00	miles
Required Abandonment-	4+36	stations	Optional	0+00	stations
	0.08	miles	Reconstruction -	0.00	miles
			Optional	0+00	stations
			Construction -	0.00	miles

PRE-HAUL MAINTENANCE

EXCAVATION					
Pull and clean ditch-	2.30	stations @	\$67.19	per station	\$154.54
MISC.					
Grade and shape existing road surface -	2.30	stations @	\$18.25	per station	\$41.98
TOTAL CLEARING, GRUBBING, EXCAVATION, FILL, and MISC.					\$196.52

ABANDONMENT

Construct waterbar -	5.00	@	\$71.67	each	\$358.35
Construct Spoil Berm -	1.00	@	\$215.00	each	\$215.00
Grass seed and fertilize -	16.00	lbs @	\$15.00	per lbs	\$240.00
Remove culverts from state lands -	1.00	@	\$158.10	total	\$158.10
TOTAL ADDITIONAL REQUIREMENTS					\$971.45

SUBTOTAL \$1,167.97

MOBILIZATION

SUBTOTAL \$35.13

OVERHEAD & GENERAL EXPENSES

10% SUBTOTAL \$120.31

TOTAL \$1,323.41

Optional Rock? NO

COST PER STATION \$198.71

ROCK DEVELOPMENT COST SUMMARY

Pit:	<u>Walville Quarry</u>	Location:	<u>T13R07W</u>
Sale:	<u>Dodge City</u>	Road:	<u>5474 c.y.</u>
Swell:	<u>1.40</u>	Stockpile:	<u>c.y.</u>
Shrinkage	<u>1.16</u>	Total Truck Loads:	<u>5474 c.y.</u>
Drill Pct.:	<u>0%</u>	In Place Total:	<u>3910 c.y.</u>

Pit Development & Cleanup including Clearing and grubbing of
Waste Area @ adjacent to pit, place overburden
in Waste Area, spread and compact.

	<u>\$4.09</u>	/cu.yd x	<u>2222</u> cu.yds.	<u>\$9,087.98</u>
Rip Rock:	<u>\$2.50</u>	/cu.yd x	<u>3910</u> cu.yds.	<u>\$9,775.00</u>
Push Rock:	<u>\$0.67</u>	/cu.yd x	<u>5474</u> cu.yds.	<u>\$3,667.58</u>
Load Dump Truck:	<u>\$1.50</u>	/cu.yd x	<u>5474</u> cu.yds.	<u>\$8,211.00</u>
			Subtotal	<u>\$30,741.56</u>

Move in Loader	1	@	\$521.67	=	\$521.67
Move in Excavator	1	@	\$716.23	=	\$716.23
			Subtotal		<u>\$1,237.90</u>

TOTAL PRODUCTION COSTS \$31,979.46

Base Cost= \$5.84 Per Cu.Yd.

Road Segment	Haul Cost /cu.yd.	Application Cost /cu.yd.	Base Cst. /cu.yd.	Cost /cu.yd.	Number Cu. Yds	Speed (Mi/hr.)	One-Way Dist (ft)	ROCK COST
RCP-Mainline Inlet Headwall	\$6.82	\$6.00	\$5.84	\$18.66	2	25	23400	\$37.32
RCP-Mainline Energy Dissipator	\$6.82	\$6.00	\$5.84	\$18.66	2	25	23400	\$37.32
RCP-Mainline	\$7.32	\$1.00	\$5.84	\$14.16	336	25	23400	\$4,757.76
RCP-Mainline Road Ballast	\$7.32	\$1.00	\$5.84	\$14.16	85	25	23400	\$1,203.60
RCP-100 Energy Dissipator	\$11.69	\$6.00	\$5.84	\$23.53	5	15	25580	\$117.65
RCP-110 Inlet Headwall	\$11.89	\$6.00	\$5.84	\$23.73	2	15	26100	\$47.46
RCP-110 Energy Dissipator	\$11.89	\$6.00	\$5.84	\$23.73	1	15	26100	\$23.73
RCP-110	\$11.89	\$1.00	\$5.84	\$18.73	1560	15	26100	\$29,218.80
RCP-110 Inlet Headwall	\$11.89	\$6.00	\$5.84	\$23.73	2	15	26100	\$47.46
RCP-110 Energy Dissipator	\$11.89	\$6.00	\$5.84	\$23.73	2	15	26100	\$47.46
RCP-110	\$11.39	\$1.00	\$5.84	\$18.23	1363	15	26100	\$24,847.49
RCP-900 Inlet Headwall	\$7.79	\$6.00	\$5.84	\$19.63	1.0	15	16600	\$19.63
RCP-900 Energy Dissipator	\$7.79	\$6.00	\$5.84	\$19.63	1.0	15	16600	\$19.63
RCP-920 Inlet Headwall	\$8.78	\$6.00	\$5.84	\$20.62	1	15	17900	\$20.62
RCP-920 Energy Dissipator	\$8.78	\$6.00	\$5.84	\$20.62	1	15	17900	\$20.62
RCP-920	\$8.28	\$1.00	\$5.84	\$15.12	454	15	17900	\$6,864.48
RCP-940	\$8.62	\$1.00	\$5.84	\$15.46	259	15	18800	\$4,004.14
Spur A	\$7.83	\$1.00	\$5.84	\$14.67	210	15	15400	\$3,080.70
Spur B Inlet Headwall	\$7.42	\$6.00	\$5.84	\$19.26	1	15	14300	\$19.26
Spur B Energy Dissipator	\$7.42	\$6.00	\$5.84	\$19.26	1	15	14300	\$19.26
Spur B	\$7.42	\$1.00	\$5.84	\$14.26	286	15	14300	\$4,078.36
RCP-1300 Ext	\$5.22	\$1.00	\$5.84	\$12.06	266	15	8500	\$3,207.96
RCP-1340	\$4.81	\$1.00	\$5.84	\$11.65	141	15	7430	\$1,642.65
RCP-1350	\$3.22	\$1.00	\$5.84	\$10.06	68	35	7500	\$684.08
RCP-1360	\$3.14	\$1.00	\$5.84	\$9.98	424	35	7000	\$4,231.52
					Total C.Y.	5474	Sub Total	\$88,298.96

TOTAL ROCKING COSTS \$88,298.96

ROCK DEVELOPMENT COST SUMMARY

Pit:	<u>Walville Quarry Stockpile</u>	Location:	<u>T13R06W</u>
Sale:	<u>Dodge City</u>	Road:	<u>1173 c.y.</u>
Swell:	<u>1.40</u>	Stockpile:	<u>c.y.</u>
Shrinkage	<u>1.16</u>	Total Truck Loads:	<u>1173 c.y.</u>
Drill Pct.:	<u>0%</u>	In Place Total:	<u>838 c.y.</u>

Load Dump Truck:	<u>\$0.75</u> /cu.yd x	<u>1173</u> cu.yds. =	<u>\$879.75</u>
		Subtotal	<u>\$879.75</u>

Road Segment	Haul Cost /cu.yd.	Application Cost /cu.yd.	Base Cst. /cu.yd.	Cost /cu.yd.	Number Cu. Yds	Speed (Mi/hr.)	Dist (ft)	ROCK COST
RCP-Mainline	\$7.32	\$1.00	\$0.75	\$9.07	618	25	23400	\$5,605.26
RCP-Mainline Culvert Backfill	\$7.32	\$1.00	\$0.75	\$9.07	60	25	23400	\$544.20
RCP-Mainline Spot Rock	\$7.32	\$1.00	\$0.75	\$9.07	40	25	23400	\$362.80
RCP-100	\$11.69	\$1.00	\$0.75	\$13.44	50	15	25580	\$672.00
RCP-100 Spot Rock	\$11.69	\$1.00	\$0.75	\$13.44	90	15	25580	\$1,209.60
RCP-100A Spot Rock	\$12.77	\$1.00	\$0.75	\$14.52	50	15	28440	\$726.00
RCP-900 Culvert Backfill	\$8.29	\$1.00	\$0.75	\$10.04	40	15	16600	\$401.60
RCP-900 Spot Rock	\$8.29	\$1.00	\$0.75	\$10.04	50	15	16600	\$502.00
RCP-1300	\$5.22	\$1.00	\$0.75	\$6.97	174	15	8500	\$1,212.78
Total C.Y.					1172		Sub Total	\$11,236.24

TOTAL ROCKING COSTS \$11,236.24

ROCK DEVELOPMENT COST SUMMARY

Pit:	<u>Commercial Source</u>	Location:	
Sale:	<u>Dodge City</u>	Road:	<u>1406 c.y.</u>
Swell:	<u>1.40</u>	Stockpile:	<u>c.y.</u>
Shrinkage	<u>1.16</u>	Total Truck Loads:	<u>1406 c.y.</u>

Purchase Drain Rock	<u>\$24.00</u>	/ton	x	<u>9</u>	tons	=	\$216.00
Purchase 1 1/4" Minus Crushed	<u>\$13.50</u>	/ton	x	<u>1884</u>	tons	=	\$25,434.00
					Subtotal		\$25,650.00

Road Segment		Haul Cost /cu.yd.	Application Cost /cu.yd.	Base Cst. /cu.yd.	Cost /cu.yd.	Number Cu. Yds	Speed (Mi/hr.)	Dist (ft)	ROCK COST
RCP-Mainline	Structural Backfill	\$19.05	\$1.00	\$18.24	\$38.29	1306	45	131050	\$50,006.74
RCP-Mainline	Drain Rock	\$19.05	\$6.00	\$18.24	\$43.29	60	45	131050	\$2,597.40
RCP-Mainline	Surfacing	\$19.05	\$1.00	\$18.24	\$38.29	40	45	131050	\$1,531.60
						Total C.Y.	1406	Sub Total	\$54,135.74

TOTAL ROCKING COSTS \$54,135.74

Road Building Move-In Calculations

Sale: Dodge City

LOWBOY HAUL (Round Trip)		
DIST. (mi)	ROADWAY	AVE SPEED (mph)
65.0	Highway	50
3.0	County/ Mainline	25
1.0	Steep Grades	10

No.	EQUIPMENT DESCRIPTION	Move in Cost	Pilot Cars	Within Area			Within		
				Move (\$/mile)	Begin Mileage	End Mileage	Total Miles	Area Cost	Total Cost
1	Brush Cutter	\$666.60		\$16.50	0.00	0.00	0	\$0.00	\$666.60
1	Graders	\$646.40		\$16.00	0.00	0.00	0	\$0.00	\$646.40
0	Loader (Small)	\$646.40		\$16.00	0.00	0.00	0	\$0.00	\$0.00
1	Loader (Med. & Large)	\$727.20	2	\$16.00	0.00	0.00	0	\$0.00	\$855.00
1	Rollers & Compactors	\$666.60		\$16.00	0.00	0.00	0	\$0.00	\$666.60
0	Excavators (Small)	\$666.60		\$16.50	0.00	0.00	0	\$0.00	\$0.00
2	Excavators (Med.)	\$646.40		\$16.00	0.00	0.00	0	\$0.00	\$1,292.80
1	Excavators (Large)	\$727.20	2	\$16.00	0.00	0.00	0	\$0.00	\$855.00
0	Tired Backhoes/Skidlers	\$646.40		\$16.50	0.00	0.00	0	\$0.00	\$0.00
1	Tractors (D6)	\$666.60		\$16.50	0.00	0.00	0	\$0.00	\$666.60
0	Tractors (D7)	\$646.40		\$16.00	0.00	0.00	0	\$0.00	\$0.00
1	Tractor (D8)	\$727.20	2	\$16.00	0.00	0.00	0	\$0.00	\$855.00
7	Dump Truck (10 cy +)	\$228.00		\$0.00	0.00	0.00	0	\$0.00	\$1,596.00
0	Dump Truck (Off Hiway)	\$487.40	2	\$16.50	0.00	0.00	0	\$0.00	\$0.00
0	Water Truck (1500 Gal)	\$243.20		\$16.00	0.00	0.00	0	\$0.00	\$0.00
0	Water Truck (2500 Gal)	\$288.80		\$19.00	0.00	0.00	0	\$0.00	\$0.00

	TOTAL MOVE-IN COSTS: \$8,100.00
--	--



WASHINGTON STATE DEPARTMENT OF
NATURAL RESOURCES

WASHINGTON STATE DEPARTMENT OF NATURAL RESOURCES

FOREST EXCISE TAX ROAD SUMMARY SHEET

Region:

Timber Sale Name:

Application Number:

EXCISE TAX APPLICABLE ACTIVITIES

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

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

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

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

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

EXCISE TAX EXEMPT ACTIVITIES

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

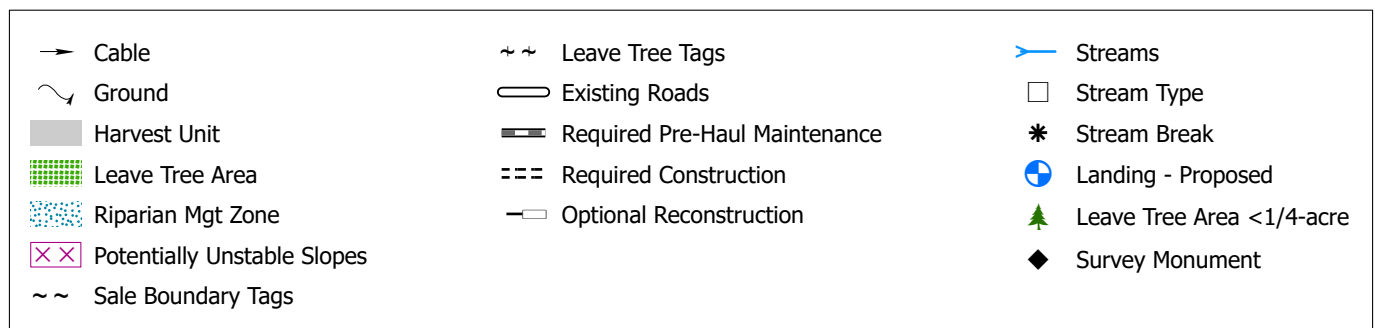
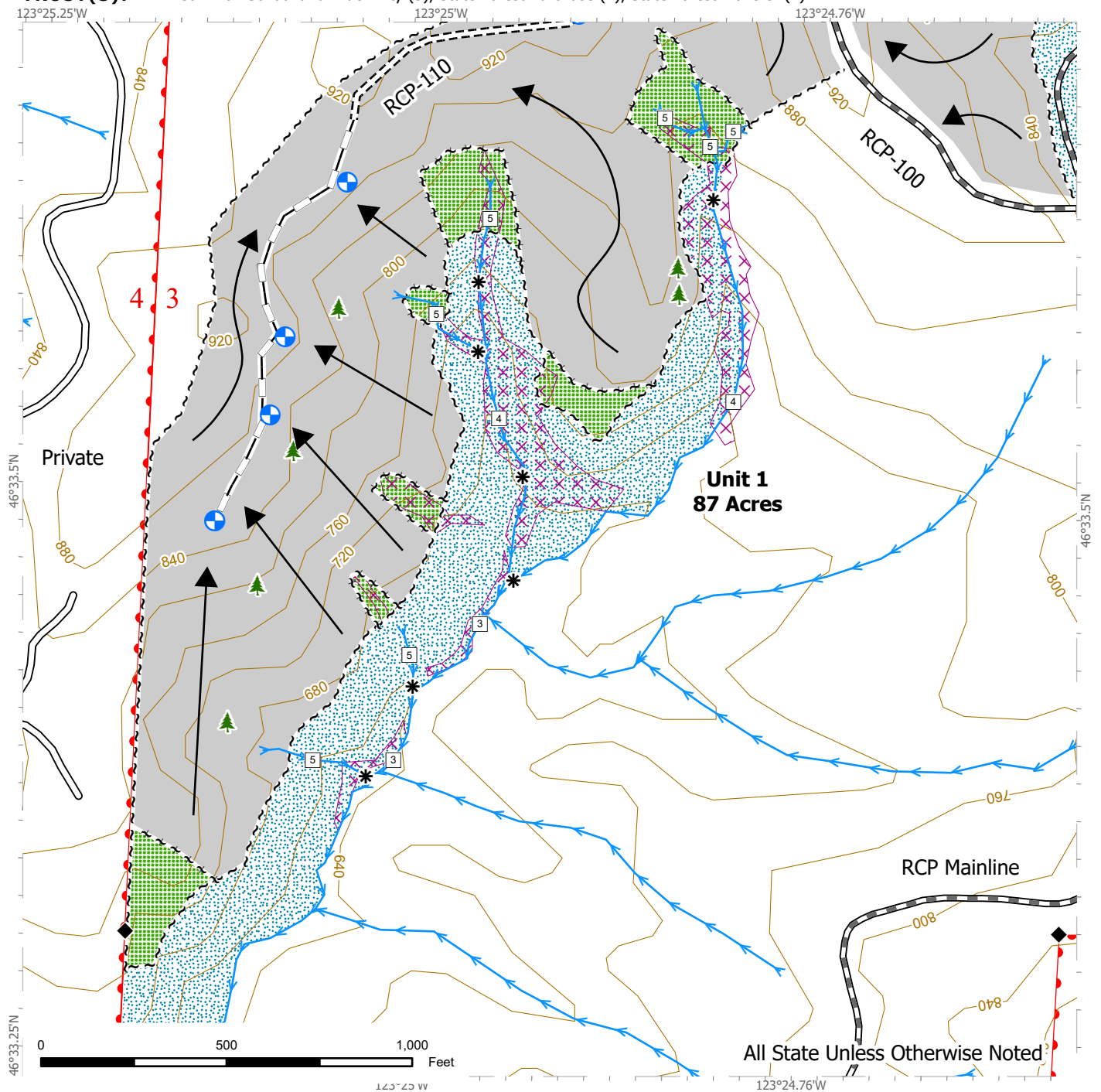
Temporary Reconstruction: **linear feet**
Roads to be reconstructed (optional and required) and then abandoned

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

LOGGING PLAN MAP

SALE NAME: DODGE CITY
AGREEMENT#: 30-107463
TOWNSHIP(S): T12R6W, T13R6W
TRUST(S): Common School and Indemnity (3), State Forest Purchase (2), State Forest Transfer (1)

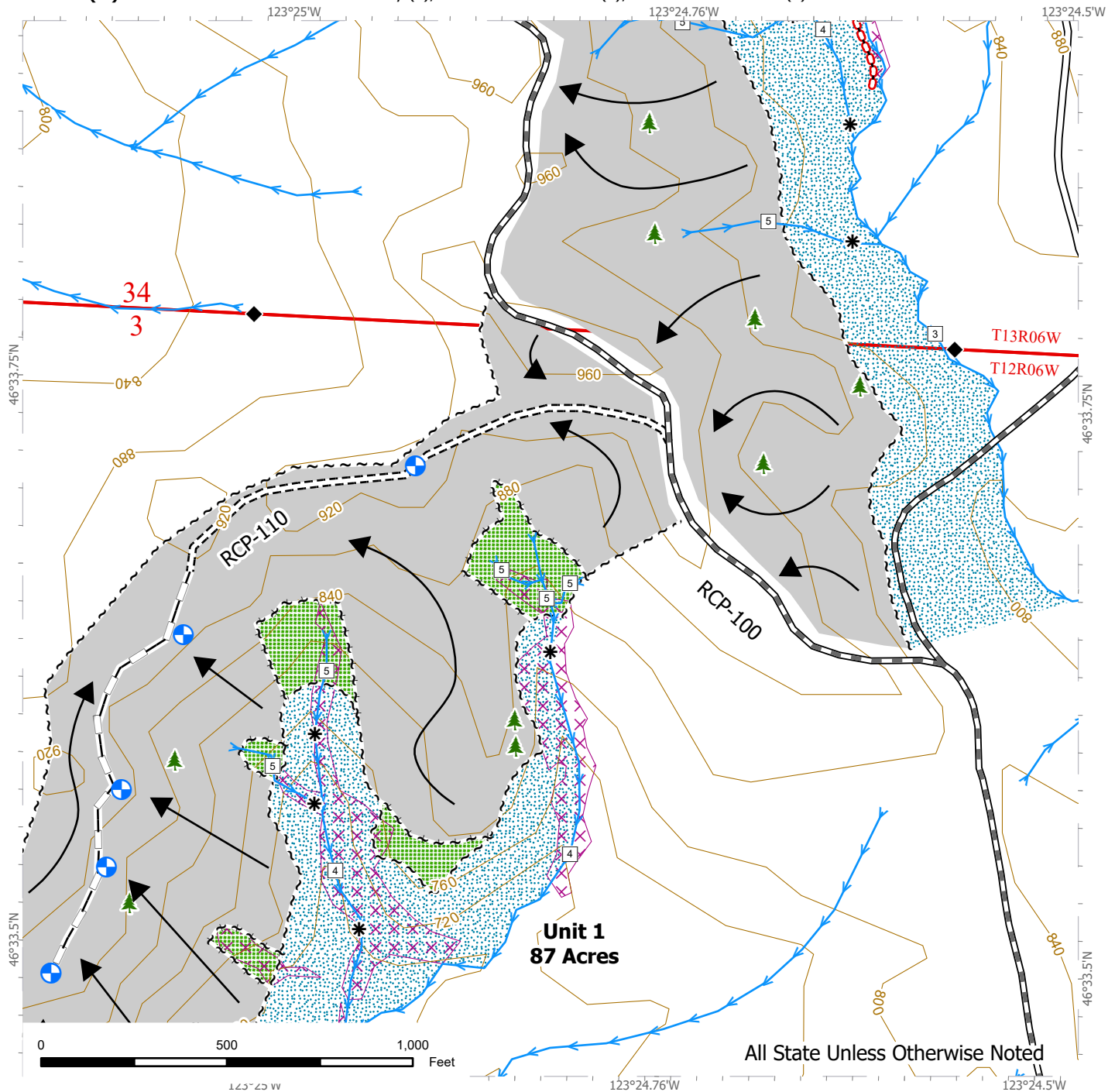
REGION: Pacific Cascade Region
COUNTY(S): Pacific
ELEVATION RGE: 680-1160



LOGGING PLAN MAP

SALE NAME: DODGE CITY
AGREEMENT#: 30-107463
TOWNSHIP(S): T12R6W, T13R6W
TRUST(S): Common School and Indemnity (3), State Forest Purchase (2), State Forest Transfer (1)

REGION: Pacific Cascade Region
COUNTY(S): Pacific
ELEVATION RGE: 680-1160



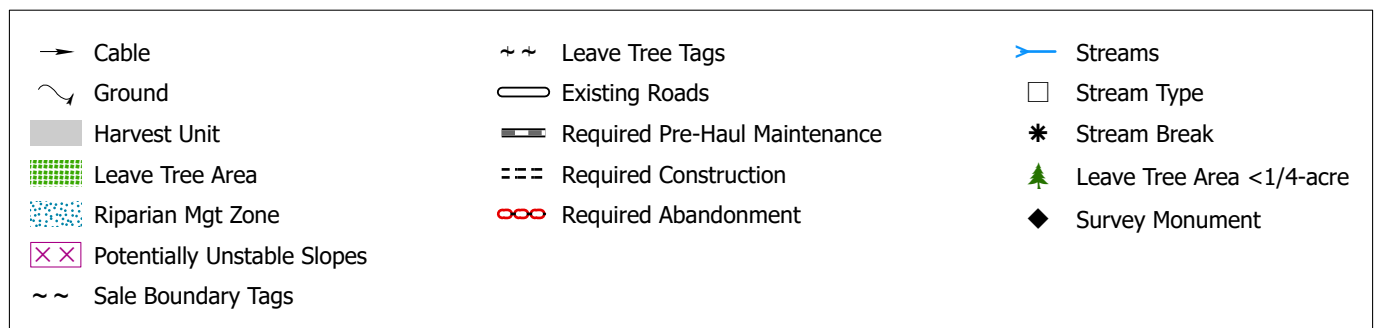
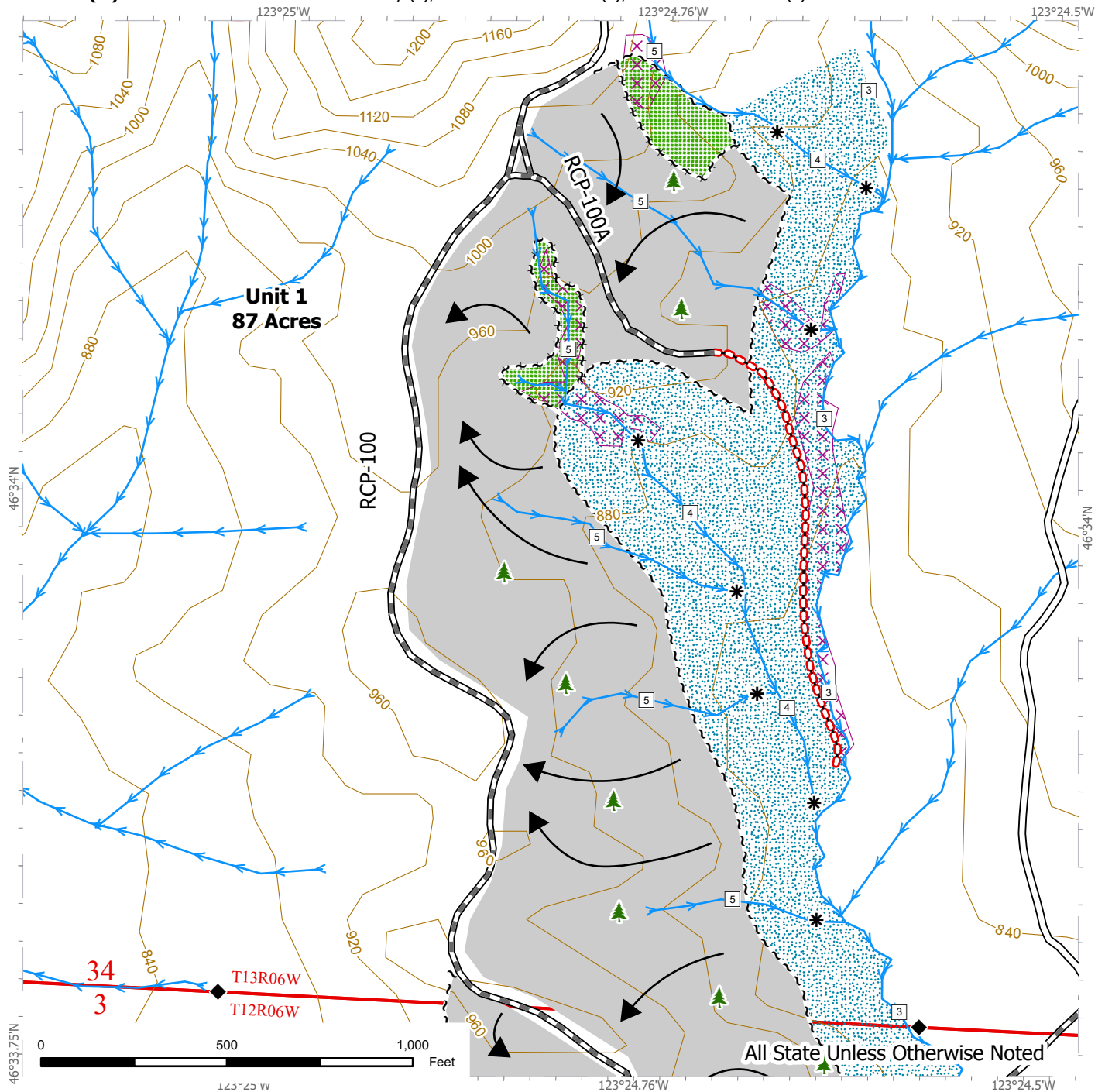
All State Unless Otherwise Noted

- | | | |
|---------------------------------|---------------------------------|-----------------------------|
| → Cable | ~ ~ Leave Tree Tags | → Streams |
| ~ Ground | — Existing Roads | □ Stream Type |
| ■ Harvest Unit | — Required Pre-Haul Maintenance | * Stream Break |
| ■ Leave Tree Area | --- Required Construction | ⊕ Landing - Proposed |
| ■ Riparian Mgt Zone | — Optional Reconstruction | ▲ Leave Tree Area <1/4-acre |
| × × Potentially Unstable Slopes | ∞ Required Abandonment | ◆ Survey Monument |
| ~ ~ Sale Boundary Tags | | |

LOGGING PLAN MAP

SALE NAME: DODGE CITY
AGREEMENT#: 30-107463
TOWNSHIP(S): T12R6W, T13R6W
TRUST(S): Common School and Indemnity (3), State Forest Purchase (2), State Forest Transfer (1)

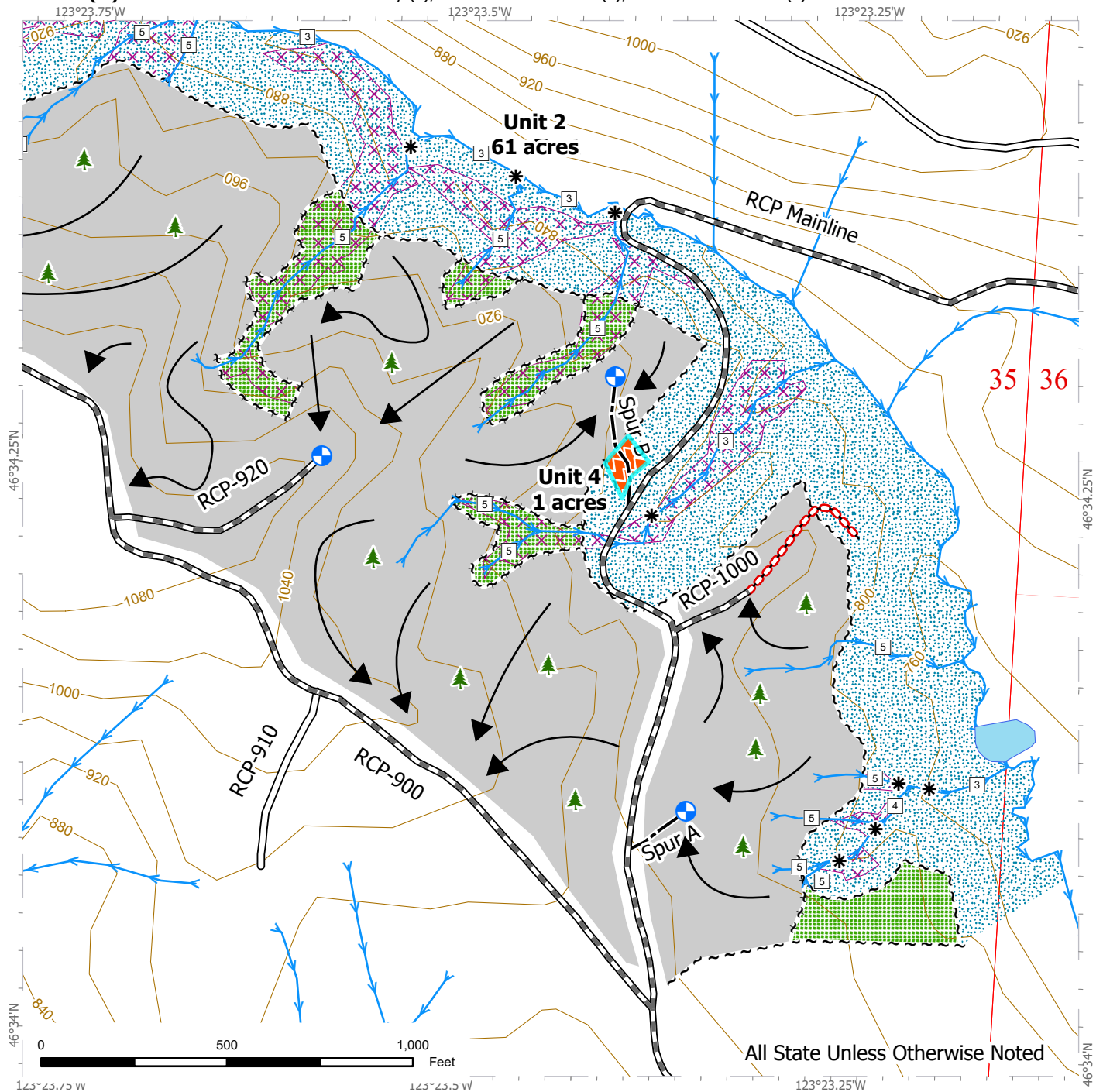
REGION: Pacific Cascade Region
COUNTY(S): Pacific
ELEVATION RGE: 680-1160



LOGGING PLAN MAP

SALE NAME: DODGE CITY
AGREEMENT#: 30-107463
TOWNSHIP(S): T12R6W, T13R6W
TRUST(S): Common School and Indemnity (3), State Forest Purchase (2), State Forest Transfer (1)

REGION: Pacific Cascade Region
COUNTY(S): Pacific
ELEVATION RGE: 680-1160

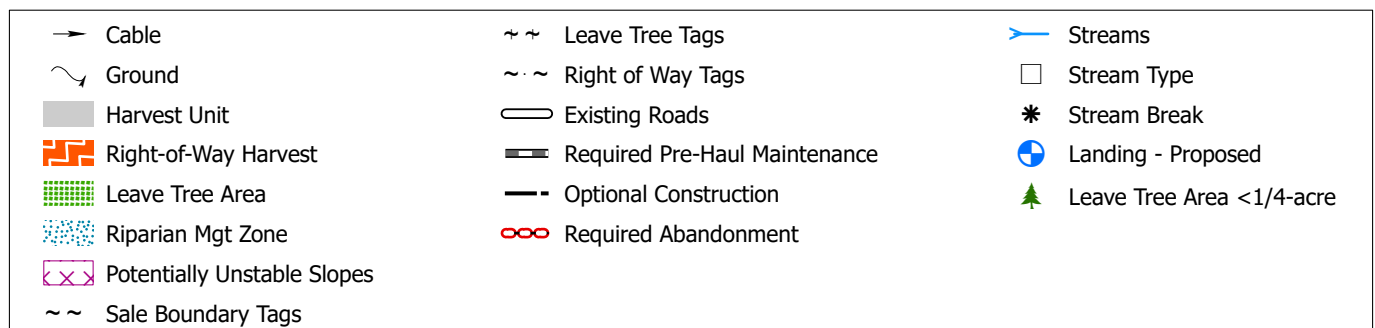
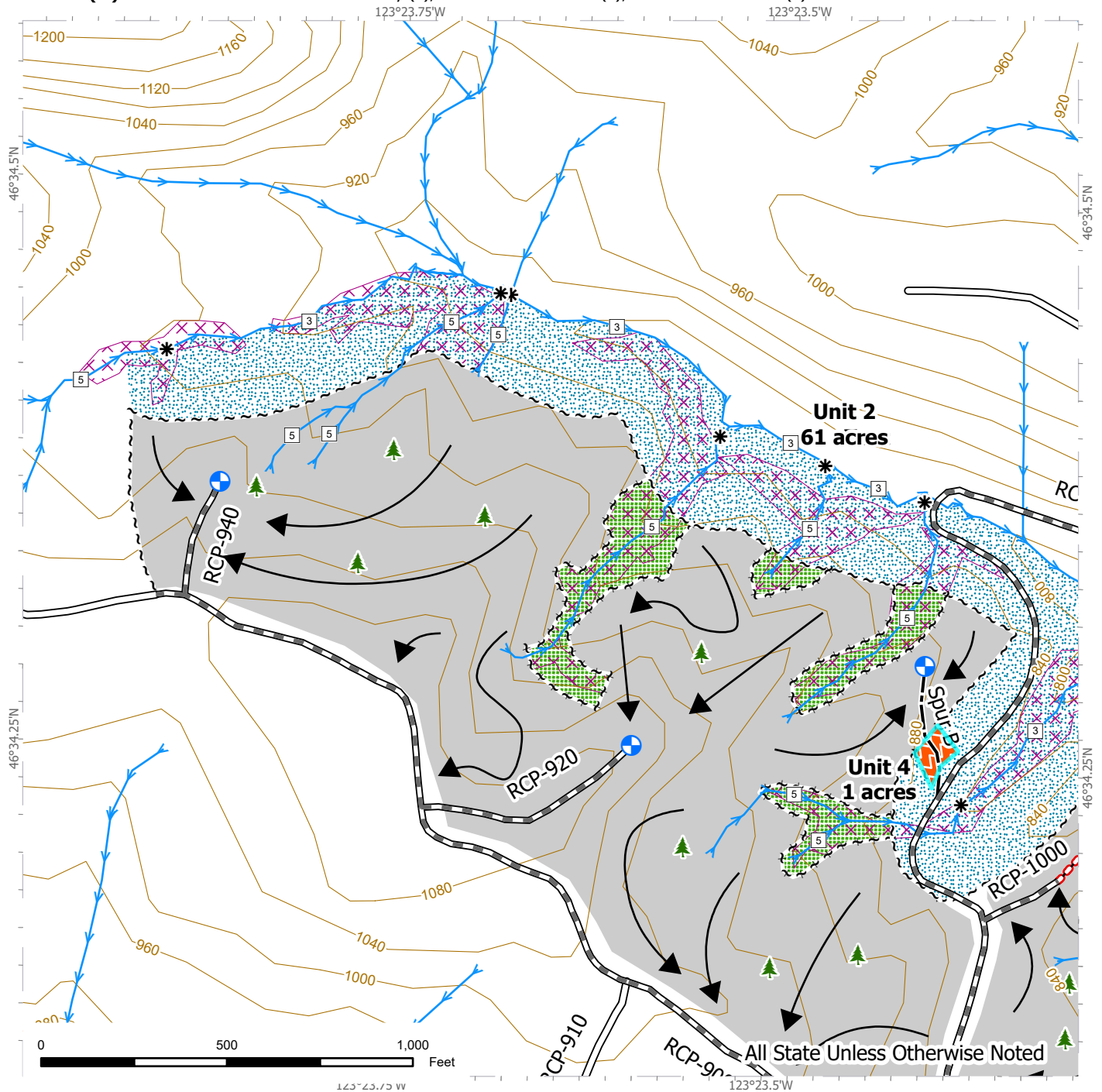


Cable	Leave Tree Tags	Streams
Ground	Right of Way Tags	Stream Type
Harvest Unit	Existing Roads	Stream Break
Right-of-Way Harvest	Required Pre-Haul Maintenance	Landing - Proposed
Leave Tree Area	Optional Construction	Leave Tree Area <1/4-acre
Riparian Mgt Zone	Required Abandonment	
Potentially Unstable Slopes		
Sale Boundary Tags		

LOGGING PLAN MAP

SALE NAME: DODGE CITY
AGREEMENT#: 30-107463
TOWNSHIP(S): T12R6W, T13R6W
TRUST(S): Common School and Indemnity (3), State Forest Purchase (2), State Forest Transfer (1)

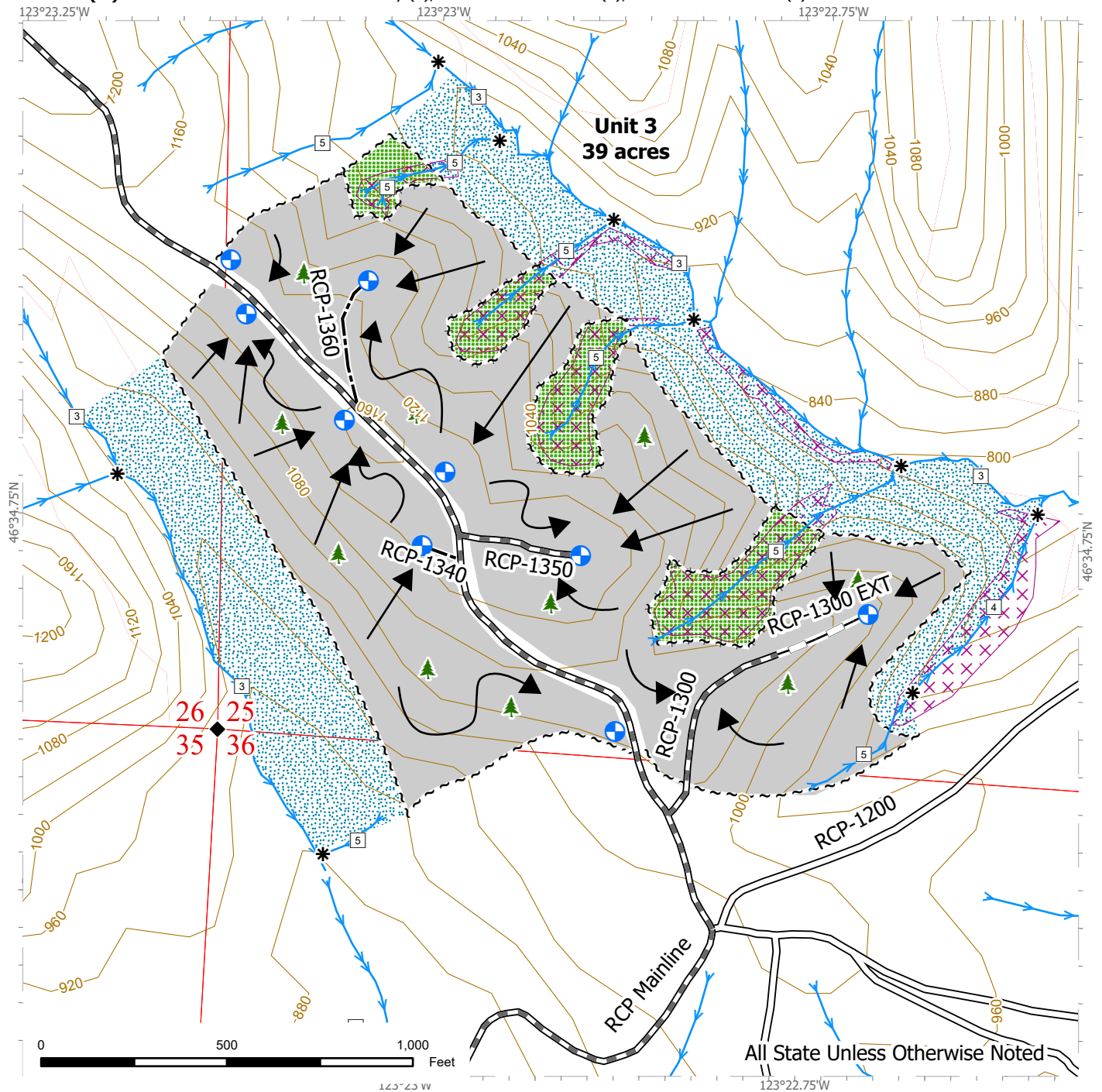
REGION: Pacific Cascade Region
COUNTY(S): Pacific
ELEVATION RGE: 680-1160



LOGGING PLAN MAP

SALE NAME: DODGE CITY
AGREEMENT#: 30-107463
TOWNSHIP(S): T12R6W, T13R6W
TRUST(S): Common School and Indemnity (3), State Forest Purchase (2), State Forest Transfer (1)

REGION: Pacific Cascade Region
COUNTY(S): Pacific
ELEVATION RGE: 680-1160



→ Cable	~ ~ Leave Tree Tags	→ Streams
~ ~ Ground	Existing Roads	□ Stream Type
Harvest Unit	Required Pre-Haul Maintenance	* Stream Break
Leave Tree Area	Optional Construction	⊕ Landing - Proposed
Riparian Mgt Zone	Optional Reconstruction	🌲 Leave Tree Area <1/4-acre
✕ ✕ Potentially Unstable Slopes		◆ Survey Monument
~ ~ Sale Boundary Tags		