

Sale Name: High Buck

C2.11# - TIMBER SUBJECT TO AGREEMENT (02/1971)

In addition, there is within Sale Area an unestimated quantity of:

<u>Species</u>	<u>Product</u>
Softwood - Other	Sawtimber

that shall be Included Timber upon written agreement.

C2.301# - CUTTING UNIT BOUNDARIES (09/2001)

The boundaries of cutting units are designated as shown in the following table. The trees used for boundary designation are not to be cut.

See Cutting Unit Boundary Designation Table

C2.301# - CUTTING UNIT BOUNDARIES. (09/2001)

Cutting Unit Boundary Designation Table

Cutting Unit	Paint Color	Designation
All	Orange	A horizontal band of orange paint on three sides of intervisible unit boundary trees with vertical lines of orange paint indicating the general direction of the boundary. Within the three-sided box formed by the paint lines, an orange painted cutting unit number faces the area to be cut.

Sale Name: High Buck

C2.355# - DESIGNATION BY PRESCRIPTION (05/2015)

Within Subdivision(s) or Cutting Unit(s) All, as shown on the Sale Area Map, the following criteria shall be used by Purchaser to designate trees and other products for cutting and removal:

- (a) 1/ see High Buck Marking Specifications and High Buck Designation by Prescription Map
- (b) Additional trees to be cut, if any, are marked by Forest Service with 2/ green tracer paint.
- (c) Cutting unit boundaries and other trees that shall be left uncut are marked by Forest Service with 2/ orange tracer paint.

Purchaser may select cut trees in cutting units 3/ none without pre-harvest marking in accordance with the criteria in section (a). If specified in section (a), Purchaser shall mark leave trees in cutting units 4/ All with Purchaser's non-tracer 2/ yellow paint for inspection and approval by Forest Service prior to cutting.

Prescription/Associated Cutting Unit #s

Table 1. Designation cutting specifications by subunit⁶.

Cutting Unit	Subunit	Acres	Target BA ¹	Species Retention ²	Species Removal	Diameter Retention ³
40	40	23.5	100		Remove all GF <20" DBH ⁵	
41	41	46.9	100		Remove all GF <20" DBH ⁵	
42	42A	59.7	100	Retain all PP	Remove all GF <20" DBH ⁵	
	42B	18.2	80			Retain all trees ≥20" DBH ⁴
	42C	14.3	100	Retain all PP	Remove all GF <20" DBH ⁵	
	42F	5.6	80	Retain all PP		
43	43A	21.7	80	Retain all PP and WL		
	43B	17.5	80			Retain all trees ≥20" DBH ⁴
	43C	29.8	70	Retain all PP		
	43D	44.6	80			Retain all trees ≥20" DBH ⁴
	43E	35.1	110	Retain all PP	Remove all GF <20" DBH ⁵	Retain all trees ≥20" DBH ⁴
	43F	52.0	80			Retain all trees ≥20" DBH ⁴
	43G	65.0	80	Retain all PP		
	43H	14.6	80			Retain all trees ≥20" DBH ⁴
44	44A	8.8	100		Remove all GF <20" DBH ⁵	
	44B	23.9	80			Retain all trees ≥20" DBH ⁴
45	45A	37.3	80			Retain all trees ≥20" DBH ⁴
	45B	14.7	90	Retain all PP	Remove all GF <20" DBH ⁵	
46	46A	32.0	80			Retain all trees ≥20" DBH ⁴
	46B	6.0	70			Retain all trees ≥20" DBH ⁴
47	47A	10.3	0		Remove all trees	
	47B	38.7	70			Retain all trees ≥20" DBH ⁴
48	48A	48.9	80	Retain all PP		
	48B	26.6	100	Retain all PP	Remove all GF <20" DBH ⁵	
	48C	10.4	100	Retain all PP	Remove all GF <20" DBH ⁵	
	48D	43.1	80	Retain all PP		
	48F	6.7	80			Retain all trees ≥20" DBH ⁴
49	49A	14.0	80			Retain all trees ≥20" DBH ⁴
	49B	9.0	80	Retain all PP		Retain all trees ≥20" DBH ⁴
	49C	55.8	70	Retain all PP		
50	50A	51.2	70			Retain all trees ≥20" DBH ⁴
	50B	65.6	100	Retain all PP	Remove all GF <20" DBH ⁵	
51	51A	68.1	80			
	51B	19.2	80	Retain all PP		
	51C	27.0	80	Retain all PP		
	51D	33.2	80	Retain all PP		
52	52A	79.7	80	Retain all PP		Retain all trees ≥20" DBH ⁴
	52B	35.5	80			Retain all trees ≥20" DBH ⁴
53	53A	40.9	80	Retain all PP		
	53B	23.0	100		Remove all GF <20" DBH ⁵	

Cutting Unit	Subunit	Acres	Target BA ¹	Species Retention ²	Species Removal	Diameter Retention ³
54	54	90.3	80			Retain all PP & DF $\geq 20''$ DBH
55	55	19.4	80	Retain all PP		
56	56	4.7	80	Retain all PP		
57	57A	5.9	80	Retain all PP		
	57B	55.9	100	Retain all PP	Remove all GF $< 20''$ DBH ⁵	
58	58A	35.3	80			Retain all trees $\geq 20''$ DBH ⁴
	58B	9.5	70			Retain all trees $\geq 20''$ DBH ⁴
461	461	8.2	70			Retain all trees $\geq 20''$ DBH ⁴
481	481	5.4	80	Retain all PP		
491	491	3.1	80			Retain all trees $\geq 20''$ DBH ⁴

¹If a conflict occurs between cutting specifications, the priority for compliance shall be 1. Required 2. Diameter Retention 3. Target Basal Area 4. Species Retention 5. Species Removal.

²All units – Aspen and western larch and legacy/legacy-like trees shall be retained.

³Unless otherwise stated, all trees \geq diameter retention limit in table will be marked as leave trees.

⁴Undesirable Douglas-fir $\geq 20''$ Diameter Breast Height (DBH) with Hawksworth Dwarf Mistletoe Rating > 4 can be removed, provided it does not remove the stand from large tree size class.

⁵Remove all grand fir EXCEPT *required* see *Cutting Specifications*.

⁶ Species Codes: PP – ponderosa pine, DF – Douglas-fir, LP – lodgepole pine, ES – Engelmann spruce, GF – grand fir, AF – subalpine fir.

High Buck Marking Specifications

These *Marking Specifications* are designed to be utilized in the cutting units *identified in Table 1 of this contract provision (C2.355# - Designation by Prescription)* in the High Buck Timber Sale Contract, and as shown on the *High Buck Designation by Prescription Map*. More detailed information on marking to achieve desired conditions can be located in *Supplement 1 – High Buck Marking Guide*.

The purpose of these treatments are to:

- Promote and maintain large tree forest structure and old forest characteristics (e.g. - legacy trees, large snags, coarse woody debris) while restoring the desired species composition and stand densities;
- Promote forest health by reducing competition and stress for residual trees;
- Improve habitat for wildlife species that require large tree stands and old forest characteristics with low to moderate canopy cover and early seral tree species;
- Reduce potential for active crown fire spread in treated areas.

Following treatment, these units would be a mosaic of individual trees, clumps of trees, and openings.

These marking specifications have been developed to provide instructions to designate timber to achieve the desired stand conditions. The difference between these specifications and many

traditional marking guides is the contractual emphasis on creating spatial variability for wildlife habitat objectives.

These specifications have been organized into the following sections:

- **Designation – Leave Tree Mark**
 - Explains how trees must be designated and which trees should be considered for designation.
- **Cutting Specifications**
 - Provides specifications on which trees will receive preference for designation as leave trees when selecting individual trees for retention.
- **Spatial Pattern – Individual, Clumps, Openings, and Interspace**
 - Describes how spatial variability will be incorporated and defines/provides specifications for achieving desired spatial conditions for individual trees, clumps, interspace, and openings.
- **Other Special Considerations**
 - Describes the *RCA Boundary* and *Improvements* and *Special Features* encountered while marking.

Designation – Leave Tree Mark

Tree marking paint used to designate leave trees will meet the following specifications:

- Tree marking paint for designating leave trees must be durable under typical condition for at least three years and color shall be **YELLOW** unless previously agreed upon in writing by the Forest Service.
- Deletion of leave trees, for the purpose of compliance with cutting specifications, prior to acceptance (C6.36# - Acceptance of Work) will be made using **BLUE** paint unless previously agreed upon in writing by the Forest Service.
- Tree marking paint will be used to designate leave trees using the specifications outlined in Table 2.

Table 2. Tree marking specifications

Species	Minimum DBH
ponderosa pine (PP), Douglas-fir (DF), lodgepole pine (LP), Engelmann spruce (ES), Subalpine fir (SF), grand fir (GF)	8 inch

- Leave trees shall be designated with:
 - Two *Diameter Breast Height (DBH) marks*, defined as, horizontal lines on opposite sides of the tree at or above DBH covering a minimum of 3/4^{ths} of the circumference of the tree and at least 2 inches in width AND
 - One horizontal *stump mark* on the base of the tree, on the downhill or lowest side, is required. This mark shall be heavy enough to fill cracks or crevices in the bark and shall cover at least 16 square inches and extend into the duff. This mark is to be below the lowest possible stump height if the tree were cut.



Cutting Specifications

Designate leave trees to retain a residual average square feet of basal area (BA) per acre as identified in Table 1 throughout the entire subunit (Table 1). Trees < 8" DBH shall not count towards target BA. Residual BA per acre will fluctuate within a subunit based on clumps, openings, *Required* (as described below) trees and species/diameter retention and removal specifications (Table 1), but the subunit average basal area shall not vary by more than 20% from the target basal area unless mutually agreed to in writing by the Forest Service and purchaser (C6.26# - Acceptance of Work). Any modifications to the silvicultural prescription (e.g. tolerance for target basal area) shall be approved by a certified silviculturist.

The order of preference for leave tree designation and cutting specifications (Table 1) is: Required > Diameter Retention > Basal Area Target > Species Retention > Species Removal. For example, if Table 1 identifies a target BA of 100 and a species removal specification to remove all GF, if removing all GF would result in a basal area of 70, then 10 BA of GF would have to be retained to be within tolerance (20%) of the target BA.

Required

The following is required regardless of the desired basal area (remaining basal area may exceed desired in these situations).

- Designate as leave trees all legacy ponderosa pine and legacy-like Douglas-fir and grand fir.
 - See *Supplement 2 – Legacy Tree Guide for the Boise National Forest* (v 1.5) for methodology and standards.
- All trees meeting the species retention and diameter retention requirements in Table 1. If conflicts arise, follow leave tree preference identified above.
- Retain a minimum of 10 large trees (≥ 20 " DBH) per acre following the species preference, as described in Table 3.
- Designate for retention all western larch.
- No openings larger than 1.5 acres.
- All trees with cavities and/or nests shall be designated as leave trees.

- In all subunits **EXCEPT** 41, 43E, 44B, 50A and 57B select 1 snag ≥ 20 " DBH per 10 acres to receive an 83-foot no treatment buffer. Subunit acres, for the purpose of snag selection, will be rounded down to the nearest acreage evenly divisible by 10. For example, a 12 acre unit would be rounded to 10 acres, and one snag would be selected. A 27 acre unit would be rounded down to 20 acres and have 2 snags selected. Snag species preference is: PP>DF>GF. Snags should be > 30 feet tall. Preferred snag characteristics are described in *Supplement 3 – Miscellaneous Information*. All merchantable trees within 83 feet shall be marked for retention. If the required number of suitable snags are not available in a subunit, the purchaser shall notify the Forest Service to determine alternative snag retention guidelines.

Spatial Pattern – Individual, Clumps, Openings, and Interspace Refer to Figure 1 for a graphic display of desired spatial heterogeneity. In some cases, healthy trees will need to be removed to create interspace and less vigorous trees with less desirable form will need to be retained to maintain clump spatial structure. In some cases, old suppressed trees are much smaller than adjacent trees of similar age. Retaining this structure is important for ecosystem integrity.

- *Individual trees* are identified as trees spaced roughly ≥ 60 feet (bole to bole) from other trees.
- *Clumps* are small groups of trees (2-15) with each tree approximately ≤ 40 feet from tree bole to bole, representing the potential for interconnected canopies. Clumps can contain different species and are typically around the same age (refer to *Supplement 2 - Legacy Tree Guide for the Boise National Forest v 1.5*), but not necessarily the same diameter.
- *Interspace* is the area beyond 20 feet from a tree (estimated canopy), but still within the trees potential rooting zone (roughly 1.5 times canopy width, or 30 feet from tree bole).
- *Openings* are between 3/4-1.5 acres in size with less than 1 large tree (>20 " DBH) or less than 3 small and medium trees (8-20" DBH) per acre.

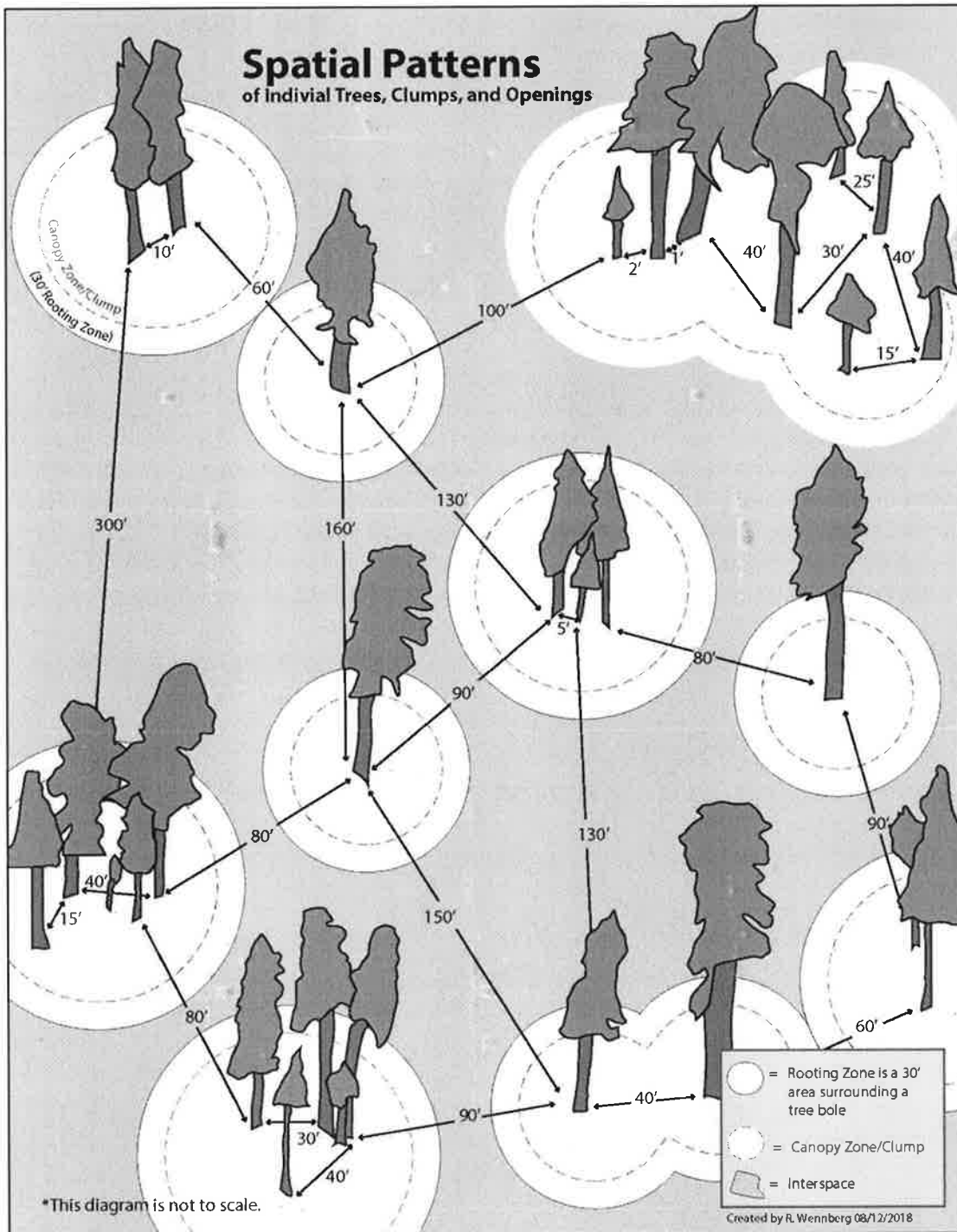


Figure 1. Example scenario that reflects the desired heterogeneous spatial distribution of leaf trees within a subunit.

Considerations for *Openings*

- Retain all legacy and legacy-like trees within openings.
- Do not create openings that extend into a Riparian Conservation Area (RCA) see Figure 2.
- Do not create openings in pockets of dense shrub cover, particularly ceanothus, Scouler willow, or mountain snowberry species.
- Openings created on slopes should follow the contour of the slope.
- Most ponderosa pine regeneration occurs within 100 feet of a seed source. Keeping opening width to <200 feet will facilitate natural regeneration where seed trees occur.
- Avoid creating openings adjacent to previous regenerated openings less than 40 years old. Particularly where the created opening will be down slope from a previous regeneration harvest (plantation).
- Avoid creating openings on knobs where warm/dry soil and weather conditions create unfavorable regeneration conditions as a result from long durations of sun and wind exposure.
- Attempt to create openings adjacent to viable ponderosa pine trees (ages 50-120 years). Ideally, ponderosa pine will be upslope from created openings to encourage natural regeneration.
- Openings will vary in shape and size from 3/4-1.5 acres, with an average opening size of 1 acre.

Desired, Adequate, and Non-desirable Trees

Use the following order of preference when selecting trees for retention based on the physical characteristics listed in Table 3: *desirable* > *adequate* > *non-desirable*.

All western larch will be retained. The desired species to retain is ponderosa pine, on all units. To meet species composition objectives, discriminate against grand fir to release ponderosa pine and healthy Douglas-fir. Preference should be given to larger diameter trees meeting the criteria for desirable and adequate trees identified in Table 3. Table 4 shows the desired target distribution by percentage for trees in the large, medium, and small tree size classes.

Identifying trees with desirable physical characteristics is a good place to start when selecting clumps for retention. Note that not all trees with desirable or adequate characteristics will be leave trees, and not all non-desirable trees will be removed, especially from within a clump. That decision depends on the leave tree selection process described in the marking guide. Trees with a large “defect” could be desirable for wildlife habitat or for snag creation within a clump. Retention of non-desirable trees should consider mitigations, such as reducing the spread of infections by removing host species in the surrounding area.

TABLE 3. PHYSICAL CHARACTERISTICS TO CONSIDER WHEN CHOOSING LEAVE TREES

EVALUATION CRITERIA	DESIRABLE	ADEQUATE	NON- DESIRABLE
SPECIES PREFERENCE	PP > DF and “green snags” of all species ¹	PP > DF > LP > ES > GF	PP > DF > LP > ES > GF > SAF
LIVE CROWN RATIO	>35%	>35%	Less than 35%
CROWN CLASS	dominants, co-dominants	dominant, co-dominant LP, ES, GF and intermediate PP and DF	suppressed & over-topped
TREE SIZE CLASS (Table 4)	Large Tree (>20" DBH)	Medium Tree (12-20" DBH) > Small Tree (8-12" DBH)	Small Tree (8-12" DBH)
DAMAGING AGENTS: INSECTS and DISEASE	None to minor insect defoliation (<25% live crown ratio).	None to minor insect defoliation (< 25 % live crown ratio).	Any bark beetle attacks Defoliation >25% of live crown. Any significant top killing. Any conks on stem which indicate rot.
(Hawksworth Dwarf Mistletoe Rating-- DMR)	DMR 0-3	DMR 0 to 3	DMR rating 4-6 or any immediately adjacent trees to the infected ones.
FORM DEFECTS	NONE to MINOR (no significant weakening of the tree anticipated. Minor crooks, sweeps, and tight forks which are < 30% of total tree height are acceptable if the tree is dominant or co-dominant and otherwise has good vigor).	MINOR (no significant weakening of the tree anticipated. Minor crooks, sweeps, and tight forks which are < 30% of total tree height are acceptable if the tree is dominant or co-dominant and otherwise has good vigor).	MAJOR (weakening of tree or multiple tops)
SOUNDNESS DEFECTS	NONE	NONE	ANY

¹ Green snags are trees with evidence of damage and rot suitable for nesting. Broken or dead top trees are ideal candidates for green snags and should be retained when doing so would not conflict with safety or operability. Green snags are considered desirable regardless of species or any other physical characteristic listed in Table 3. Note that trees with existing cavities and nests are *required*.

Additional guidelines for desired conditions

- Dead trees (snags) will not be removed unless required for safety or operational purposes. Where feasible, clump leave trees around snags to avoid conflicts with safety and operations.
- Remove young conifers from the dripline of legacy and legacy-like trees and clumps of 3 or more aspen.
- Target basal area is an average for the subunit. Density within clumps can greatly exceed the target basal area, highlighting the importance for including openings in average density calculations. Ignore sub-merchantable trees (<8" DBH) in target density calculation.
- Trees should be retained in clumps with interlocking crowns where possible.
- Only thin within a clump if removing trees of a different cohort. A single cohort can span roughly 20 years. Diameter is not a good indicator of age. Observe tree height for immature trees, and legacy characteristics in mature and over mature trees.
- Focus retention in the large tree size class, targeting a multi-storied stand, as outlined in Table 4. Actual retention will vary depending on existing composition and structure.
- Clump size will depend on the existing condition. Homogenous grand fir populations are good opportunities for creating interspace between clumps.
- For units with a riparian conservation area (RCA) component, designated as 130 to 260 feet from perennial stream courses (Figure 2), retain an approximate 20% higher densities of the large tree size class to facilitate long-term large wood recruitment. This may necessitate reducing densities across the remainder of the unit to achieve the overall target density.
- Focus retention on desirable and adequate trees as described in Table 3.
- Trees with high interior decay should be retained in clumps. This is especially true in GF with visible paint fungus (conks) in the lower 32 feet of the bole. Host species should be removed at least 40 feet from the area of noticeable infection.

Table 4—Target structural distribution

Size Class	Target % Distribution
Small Tree (8-12" DBH)	5%
Medium Tree (12-20" DBH)	25%
Large Tree (>20" DBH)	70%
TOTAL	100%

Riparian Conservation Areas (RCA)

Harvesting in the upper zone of RCAs along perennial streams (Figure 2 and C6.50#) is permitted but no equipment tracks are allowed off road within an RCA. Leave roughly 20% higher BA in large tree (≥ 20 " DBH) within RCAs to increase long-term large wood recruitment.

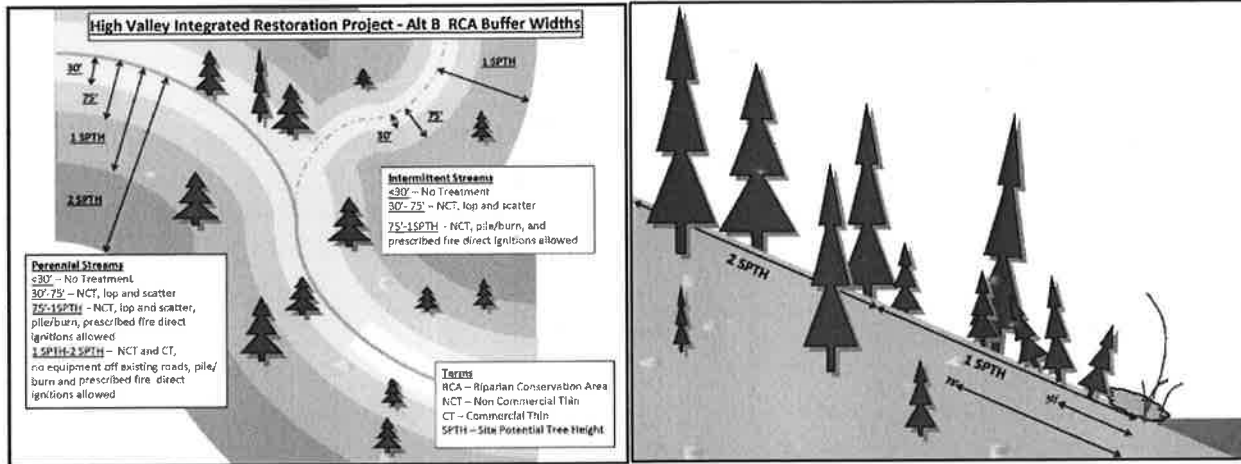


Figure 2—Graphic displays of RCA treatment zones with description of treatments approved in the High Valley Integrated Restoration Project Decision Document.

Improvements and Sensitive Features

Selection of leave trees, and subsequently cut trees, should be done in a manner that minimizes the potential for damage to occur to the residual stand and improvements during harvest operations.

Discovery of any of the following previously unidentified features shall be reported to the Sale Administrator as soon as practical and marking operations should cease within 260 feet until consultation with the Contract Inspector occurs:

- elk wallows (C6.24#);
- seeps, springs or intermittent streams (C6.50#);
- Threatened, Endangered, or Sensitive species (C6.24#, and C6.312#);
- historic or cultural sites (C6.24#)

In the event that any of these previously unidentified features are within a unit, marking guidelines may be modified by the Forest Service within an appropriately sized buffer adjacent to the feature(s) to mitigate potential resource impacts.

Quality Control

The Purchaser is required to maintain a plot system that conforms to the following specifications, unless otherwise agreed in writing:

- The Purchaser shall sample 1 plot per acre, based on the total subunit acreage, rounded down to the nearest whole number.
- The locations of plots within each unit will be determined by the Forest Service utilizing the following criteria:
 - The Forest Service will provide the Purchaser a list of files of geographic (decimal degree) coordinates [in WGS84 datum] where the plots must be installed within the unit(s) prior to the Purchaser beginning marking.
 - These plot locations will be predetermined utilizing a grid that puts the required number of plots in each unit. In the event that the plot locations do not fall entirely within the unit, or other errors with these coordinates are encountered, the Purchaser and Forest Service will mutually agree to acceptable methodologies for randomly selecting replacement plot location(s).
- Plots shall be 1/10th of an acre (37.2 foot radius). Correction for slope is required.
- Installation and measurement of plots must be conducted using Exhibit B-2 – *Purchaser Marking Inspection Form* (C6.36#) and associated instructions.
- The Forest Service may observe or re-inspect the Purchaser plots at any time.
- The Purchaser shall mark and identify each inspection plot on the ground.
 - Plot centers must be marked with a wooden stake with flagging and plot number on the stake and 3+ flags of the same color hung around plot center or other method as agreed to in writing.
 - Starting from north and proceeding clockwise, the first tree (cut or leave) that is found to be “in” on the plot will be marked with 3 flags of the same color tied around the bole of the tree. Subsequent trees will be numbered on the Purchaser Marking Inspection Form (Exhibit B-2 of C6.36#) in the order they are encountered as viewed in a clockwise rotation around plot center proceeding from the first tree.
- All Purchaser inspection records shall be provided to the Forest Service based on the schedule proposed by the Purchaser and agreed to by the Contracting Officer.

The person(s) who install/measure the Purchaser inspection plots shall sign and date each inspection sheet to certify that the inspection records are complete and accurate.

In addition, the Purchaser shall provide the Forest Service with geographic (decimal degrees) coordinates (in WGS84 datum) for all snags where an 83-foot no treatment buffer was applied as specified under the *required* section of *Cutting Specifications*.

Sale Name: High Buck

C4.211 - DOWNPAYMENT (06/2007)

The downpayment amount shown in A18 may not be applied toward any other payment required under the provisions of this contract, except damages determined pursuant to B9.4, transferred to other timber sales, or refunded until (a) stumpage value representing 25 percent of the total bid value of the timber sale has been charged and paid for, or (b) the estimated value of the unscaled timber is equal to or less than the amount of the downpayment, or (c) if 36 CFR 223.49(e) is applicable, the estimated value of the unscaled timber is equal to or less than the amount of the downpayment.

If Forest Service makes a determination that this contract should not have been included under increased downpayment requirements (36 CFR 223.49(e)), the downpayment shall be revised and applied in accordance with 36 CFR 223.49(f).

C4.212 - TEMPORARY REDUCTION OF DOWNPAYMENT (08/2009)

Notwithstanding B4.211 or C4.211, upon the Purchaser's written request Forest Service may temporarily reduce the downpayment when Purchaser's scheduled operations are delayed or interrupted for 30 or more consecutive days, or the contract term is extended for 30 or more consecutive days for any of the following reasons:

- (1) Forest Service requests or orders Purchaser to delay or interrupt operations for reasons other than breach;
- (2) Purchaser interrupts or delays scheduled operations to work on a sale designated by the Forest Service as in urgent need of harvesting; or
- (3) An adjustment of the contract term authorized upon a determination of substantial overriding public interest, including a market-related contract term addition, or an urgent removal contract term extension under 36 CFR 223.53.

When Purchaser is not cutting or removing timber under contract during a qualifying period of delay, interruption, or extension listed above the downpayment may be reduced to \$1000 or 2 percent of the downpayment amount stated in the contract, whichever is greater. The Purchaser must restore the downpayment to the full amount stated in the contract within 15 days from receipt of the bill for collection and written notice from the Contracting Officer that the basis for temporarily reducing the downpayment no longer exists. Purchaser shall not cut or remove timber on a contract where the downpayment has been temporarily reduced until the downpayment amount stated in the contract is fully restored.

Sale Name: High Buck

C4.4 - PAYMENTS NOT RECEIVED (08/2012)

(a) Payments are due and payable on the date of issue indicated on the bill for collection. When a payment for timber cut and other charges is not received at the location designated by Forest Service by the date specified in the bill for collection for, Contracting Officer will suspend all or any part of Purchaser's Operations until payment or acceptable payment guarantee is received. Other charges include, but are not limited to:

- (i) Slash disposal, road maintenance, and contract Scaling deposits;
- (ii) Cooperative work at rates established by specific agreement under B4.218;
- (iii) Damages pursuant to B9.4;
- (iv) Road use fees;
- (v) Restoration of downpayment pursuant to B4.22;
- (vi) Periodic payments pursuant to B4.213;
- (vii) Extension Deposits pursuant to B4.217; and
- (viii) Other mandatory deposits.

(b) Failure to pay amounts due by the date specified in the bill for collection shall be considered a breach under B9.3. The 30-day notice period prescribed therein shall begin to run as of the end of business on the date specified for receipt of payments. If the performance or payment is guaranteed by surety bond, the surety will receive a copy of the written notification of breach. Demand will be made on the surety or other institution providing the guarantee or bond instrument for immediate payment 10 days after issuance of written notification of the breach.

(c) Pursuant to the Debt Collection Improvement Act of 1996, as amended, if payment is not received by Forest Service within 15 days after the date of issue indicated on the bill for collection:

(i) Simple interest shall be assessed at the Current Value of Funds Rate as established by the Secretary of the Treasury. Interest will begin to accrue as of the date of issue indicated on the initial bill for collection.

(ii) Debtors will be assessed administrative charges, in addition to the delinquent amount due. Administrative charges are those additional costs incurred by the Government in processing, handling, and collecting delinquent debts.

(iii) A penalty charge of six (6) percent per annum will be assessed on any portion of a debt delinquent more than 90 days. This penalty charge is in addition to interest and administrative charges under paragraphs (c) (i) and (c) (ii). The penalty charge shall accrue from the date of issue indicated on the bill for collection and shall be assessed on all outstanding amounts, including interest and administrative costs assessed under paragraphs (c) (i) and (c) (ii).

(iv) Payments will be credited on the date received by the Federal Depository or Collection Officer designated on the bill for collection.

(d) Forest Service remedies for Purchaser's failure to make payment for timber cut and other charges when due, except for accrual of interest, suspension of all or any part of Purchaser's Operations, and administrative offset, shall be stayed for so long as:

- (i) A bona fide dispute exists as to Purchaser's obligation to make such payment and
- (ii) Purchaser files and prosecutes a timely Claim.

Sale Name: High Buck

C5.12# - USE OF ROADS BY PURCHASER (06/1999)

Purchaser's use of existing roads identified on Sale Area Map by the following codes is prohibited or subject to restrictive limitations, unless agreed otherwise:

Code	Use Limitations
X	Hauling prohibited
R	Hauling restricted
U	Unsuitable for hauling prior to completion of agreed reconstruction
P	Use prohibited
A	Public use restriction
W	Regulation waiver

Roads coded A will be signed by the Forest Service to inform the public of use restrictions. Purchaser's use of roads coded R, A, or W shall be in accordance with the following restrictions:

See Restricted Road List Table.

C5.12# - USE OF ROADS BY PURCHASER. (06/1999)

Restricted Road List

Road Number	Road Name	Termini		Map Legend	Description of Restrictions
		From	To		
643	Dry Buck	MP 0.0	MP 20.90	R	Log hauling is restricted on weekends(all day Saturday and Sunday); all major holidays (New Years, Memorial Day, Independence Day, Labor day, Thanksgiving and the day after, Christmas Eve and Christmas Day); and the opening of deer, elk, and turkey general hunting seasons.
643M	North Fork Ridge	MP 0.0	MP 5.90		
643Q	Spur 643Q	MP 0.0	MP 6.55		
644	Ola-Smiths Ferry	MP 0.0	MP 17.80		
644	Ola-Smiths Ferry	MP 9.9	MP 17.80	R	Snow plowing prohibited from December 15 th through March 15 th or as directed by Valley County.
643QB	Spur 643QB	MP 0.0	MP 0.4	X	Haul prohibited
643Q	Spur 643Q	MP 0.1	6.55	A	Public use prohibited from September 30 th – July 1 st
643M5	Spur 643M5	0.0	0.60	A	Public motorized use prohibited.
643R	Spur 643R	0.0	0.80		
643S	Spur 643S	0.0	2.04		
643U	Spur 643U	0.0	0.66		
All Temporary Roads	N/A	All		N/A	Public motorized use prohibited.

Sale Name: High Buck

C5.13# - ROAD COMPLETION DATE (04/2004)

Construction of Specified Roads shall be completed no later than 10/31/2020; except for earlier construction completion dates for roads listed below:

Road Number	Road Name	Station		Completion Date
		From	To	

Completion date is binding on the party that constructs road, whether Purchaser or Forest Service. Contracting Officer shall modify the completion date in writing to conform to the approved Plan of Operations under B6.311 at the request of Purchaser.

When Purchaser elects Forest Service construction of Specified Roads shown in sale advertisement, Forest Service may adjust construction completion date when road construction is delayed or interrupted for causes that qualify for an adjustment of the completion date of Forest Service's road construction contract. When qualifying delays or interruptions of road construction occur, Forest Service shall evaluate such occurrences and document any findings. The current status of any adjustment shall be available to Purchaser on request. Promptly after the end of Normal Operating Season in which qualifying days occur, Forest Service shall give Purchaser written notice of (a) number of qualifying days claimed, and (b) new construction completion dates. After all road construction is complete, Forest Service shall grant Contract Term Adjustment. Such adjustment shall be limited to road completion date delays that occurred during Normal Operating Season.

If Forest Service is responsible for road construction and the actual date of road completion is 1 year or more after the completion date stated above, Purchaser may request a rate redetermination under B3.3 for remaining volume. Such request must be made within 30 days of notification that road construction has been completed. Upon receipt of such request, Forest Service shall redetermine rates using standard methods in effect on the completion date of road construction. Rates to be established shall apply to all timber removed from Sale Area after the effective date of the rate redetermination.

Forest Service shall in no way be responsible for any delay or damage caused by road contractor in performing the road construction, except such delay as may be the fault or negligence of Forest Service.

When Purchaser constructs Specified Roads and requests Contract Term Adjustment, completion dates shall be adjusted by number of days that qualify for such adjustment, provided such qualifying days occur before specified construction completion date. When Purchaser desires to construct an alternate facility under B5.26, Forest Service and Purchaser shall agree, in writing, on a construction completion date for alternate facility. Contract Term Adjustment as noted above will apply. Completion date shall be adjusted where a Design Change or physical changes necessitate a modification of Specified Road construction work that increases the scope or magnitude of the required work.

If Purchaser fails to complete construction of any or all Specified Roads by applicable completion date, as adjusted, Contract Term Extension shall not be granted.

As used in this Subsection, construction of a road is completed when:

(a) Purchaser constructs Specified Roads and Forest Service furnishes Purchaser with written notice of acceptance under B6.36 or

Sale Name: High Buck

(b) Forest Service constructs road and furnishes Purchaser with written notice authorizing use of road.

Notwithstanding B5.1, Purchaser shall not use a road that Purchaser has elected for Forest Service to construct, until construction is completed and Forest Service furnishes Purchaser with written notice authorizing use of road.

C5.213# - DEPOSIT FOR RECONSTRUCTION ENGINEERING SERVICES (04/2004)

Purchaser shall make a cash deposit for engineering services (preconstruction and construction) provided by Forest Service for reconstruction of National Forest system roads necessary to accommodate Purchaser's use under this contract, pursuant to 16 USC 537.

The total amount to be deposited by Purchaser for reconstruction related engineering services to be completed by Forest Service personnel or by public works contract is \$ \$22,000.00. Purchaser shall make this deposit at the end of the first full Normal Operating Season or 12 months from contract award, whichever occurs first. In the event a different deposit schedule is agreed to, such deposit shall be due within 15 days after the date of issue indicated on the initial bill for collection, pursuant to B4.4.

The amount of the required deposit will be shown as an associated charge on Purchaser's Timber Sale Account. Forest Service shall retain any unexpended deposit for reconstruction related engineering services.

The deposit for reconstruction related engineering services shall be commensurate with project need and Purchaser's road use. Forest Service shall complete reconstruction related engineering services on the following schedule unless a different completion schedule is agreed in writing:

Road or Facility No.	Termini		Engineering Services Completion Date
	From	To	
Road-643M	0	.39	08/13/2018
Road-643Q	0	6.55	08/13/2018
Road-643Q7	0	.64	08/13/2018
Road-643Q8	0	.71	08/13/2018
Road-643S	0	2.04	08/13/2018
Road-643U	0	.66	08/13/2018

Reconstruction related engineering services may consist of some or all of the engineering work and expense of: preparing, setting out, controlling, inspecting, and measuring the reconstruction of a National Forest system road.

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C5.221# - MATERIAL SOURCES (04/2004)

Sources of local materials are designated on Drawings and Sale Area Map. Forest Service assumes responsibility for the quality and quantity of material in designated sources. Purchaser shall determine the equipment and work required to produce the specified product, including the selection of acceptable material that is reasonably available in the source that meets specifications. The designation of source includes the rights of Purchaser to use certain area(s) for plant site, stockpiles, and haul roads.

Should the designated source, due to causes beyond the control of Purchaser, contain insufficient acceptable material, Forest Service will provide another source with adjustment in accordance with B5.253.

When Purchaser elects not to use designated sources, Purchaser shall furnish the specified product with no adjustment in unit rates. Quality testing shall be the responsibility of Purchaser. Test results shall be furnished to Forest Service.

When Purchaser elects not to use designated sources and the Schedule of Items lists pit development separately, cost allowance will be reduced under B5.253 when Forest Service determines the work will not be required.

When materials are subject to a weight measurement, the specific gravity or weight/volume relationship used as a basis for determination of estimated quantities shall be:

Source I N/A, Source II N/A, and Source III N/A.

Purchaser may, when agreed in writing, use on the project such suitable stone, gravel, and sand, or other material found in the excavation, and will earn a cost allowance for the excavation of such materials at the corresponding contract unit price and for the pay items for which the excavated material is used. Purchaser shall replace, without additional cost allowance, sufficient suitable materials to complete the portion of the work that was originally contemplated to be constructed with such material. Purchaser shall not excavate or remove any material, except that which is within the excavation limits, without written authorization from Forest Service.

When material is appraised from non-National Forest designated sources, owner charges for the material in terms of unit cost for royalties, purchase of raw materials, or finished products shall be as follows until N/A:

See Material Source Table.

Should quantity vary from that estimated, payment to owners shall be for units actually obtained. Purchaser shall make arrangements with owner(s) for measurement and payment for royalties, purchase of raw materials, or finished products, as shown above.

Materials produced or processed from National Forest lands in excess of the quantities required for performance of this contract are the property of Forest Service, unless prior written agreement has been obtained to use excess material on other National Forest sales. Forest Service is not obligated to reimburse Purchaser for the cost of their production.

Materials shall be stored to assure the preservation of their quality and fitness for the work. Stored materials shall be located to facilitate their prompt inspection. Sites on Forest Service administered land, approved by Forest Service, may be used for storage purposes and for the placing of Purchaser's plant equipment. All storage sites provided by Forest Service shall be restored at Purchaser's expense. Purchaser

Sale Name: High Buck

shall be responsible for making arrangements for storage on other than Forest Service administered lands.

When the construction of the portion of the project for which Temporary Roads used for hauling materials is completed, all such Temporary Roads shall be restored as nearly as practicable to their original ground profile, unless otherwise agreed in writing.

C5.221# – MATERIAL SOURCES. (4/04

Material	Type of Purchase	Owner(s)	Unit of Measure	Unit Price	Estimated Quantity	Total
N/A	N/A	N/A	N/A	N/A	N/A	N/A

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C5.31# - ROAD MAINTENANCE REQUIREMENTS (07/2001)

Purchaser shall maintain roads in accordance with the following Contract Road Maintenance Requirements Summary:

See Contract Road Maintenance Requirements Summary Table.

C5.31# - ROAD MAINTENANCE REQUIREMENTS. (07/2001) Purchaser shall maintain roads in accordance with the following Contract Road Maintenance Requirements Summary:

ROAD MAINTENANCE PLAN
High Buck Timber Sale

T-801 Slide and Slump Removal

The maximum volume of Purchaser responsibility for Slide and Slump repair shall be 50 cubic yards per 100 linear feet of roadway.

No slumps or slides are known to exist. If any occur, a suitable disposal location will be identified for unsuitable material.

T-803 Surface Blading

Designated water sources are shown on the Sale Area Map.

T-806 Dust Abatement

See T-803 for water source.

<u>Road</u>	<u>Type of Material</u>	<u>Application Rate</u>	<u>Frequency</u>
643	Water	N/A	As needed
643M	Water	N/A	As needed
643M5	Water	N/A	As needed
643Q	Water	N/A	As needed
643Q3	Water	N/A	As needed
643Q6	Water	N/A	As needed
643Q7	Water	N/A	As needed
643Q8	Water	N/A	As needed
643QA	Water	N/A	As needed
643QC	Water	N/A	As needed
643R	Water	N/A	As needed
643S	Water	N/A	As needed
643U	Water	N/A	As needed
654	Water	N/A	As needed
654E	Water	N/A	As needed

T-809 Waterbars

<u>Road</u>	<u>Waterbars to Construct</u>
643M	50
643M5	21
643Q3	14
643Q6	7
643Q7	7
643Q8	6
643QA	6
643QC	18
643R	7
643S	28
643U	9

T-810 Barriers

<u>Road</u>	<u>Earthen Barrier</u>	<u>Location</u>
643M5	1	At junction with Road 643M
643QC	2	At junction with Road 643 (MP 18.9 and MP 18.1)
643R	1	At junction with Road 643
643S	1	At junction with Road 643
643U	1	At junction with Road 643

Contract Road Maintenance Requirements Summary

Road	Termini		Miles	Applicable Prehaul Road Maintenance Specifications										
	From	To		T-801	T-802	T-803	T-804	T-805	T-806	T-807	T-808	T-809	T-810	T-811
643	MP 0.0	MP 6.3	6.3	P	P	P	P	P	P	P	P	P		
643M	MP 0.0	MP 6.6	6.6	P	P	P	P	P	P	P	P	P		
643M5	MP 0.0	MP 0.8	0.8	P	P	P	P	P	P	P	P	P		
643Q	MP 0.0	MP 6.6	6.6	P	P	P	P	P	P	P	P	P		
643Q3	MP 0.0	MP 1.1	1.1	P	P	P	P	P	P	P	P	P		
643Q6	MP 0.0	MP 0.5	0.5	P	P	P	P	P	P	P	P	P		
643Q7	MP 0.0	MP 0.6	0.6	P	P	P	P	P	P	P	P	P		
643Q8	MP 0.0	MP 0.7	0.7	P	P	P	P	P	P	P	P	P		
643QA	MP 0.0	MP 0.5	0.5	P	P	P	P	P	P	P	P	P		
643QC	MP 0.0	MP 1.3	1.3	P	P	P	P	P	P	P	P	P		
643R	MP 0.0	MP 0.6	0.6	P	P	P	P	P	P	P	P	P		
643S	MP 0.0	MP 2.0	2.0	P	P	P	P	P	P	P	P	P		
643U	MP 0.0	MP 0.7	0.7	P	P	P	P	P	P	P	P	P		
654	MP 0.0	MP 1.7	1.7	P	P	P	P	P	P	P	P	P		
654E	MP 0.0	MP 0.3	0.3	P	P	P	P	P	P	P	P	P		

P = Purchaser Performance Item, D = Deposit to Forest Service, D3 = Deposit to Third Party

Road	Termini		Miles	Applicable During Haul Road Maintenance Specifications										
	From	To		T-801	T-802	T-803	T-804	T-805	T-806	T-807	T-808	T-809	T-810	T-811
643	MP 0.0	MP 6.3	6.3	P	P	P	P	P	P	P	P			
643M	MP 0.0	MP 6.6	6.6	P	P	P	P	P	P	P	P			
643M5	MP 0.0	MP 0.8	0.8	P	P	P	P	P	P	P	P			
643Q	MP 0.0	MP 6.6	6.6	P	P	P	P	P	P	P	P			
643Q3	MP 0.0	MP 1.1	1.1	P	P	P	P	P	P	P	P			
643Q6	MP 0.0	MP 0.5	0.5	P	P	P	P	P	P	P	P			
643Q7	MP 0.0	MP 0.6	0.6	P	P	P	P	P	P	P	P			
643Q8	MP 0.0	MP 0.7	0.7	P	P	P	P	P	P	P	P			
643QA	MP 0.0	MP 0.5	0.5	P	P	P	P	P	P	P	P			
643QC	MP 0.0	MP 1.3	1.3	P	P	P	P	P	P	P	P			
643R	MP 0.0	MP 0.6	0.6	P	P	P	P	P	P	P	P			
643S	MP 0.0	MP 2.0	2.0	P	P	P	P	P	P	P	P			
643U	MP 0.0	MP 0.7	0.7	P	P	P	P	P	P	P	P			
654	MP 0.0	MP 1.7	1.7	P	P	P	P	P	P	P	P			
654E	MP 0.0	MP 0.3	0.3	P	P	P	P	P	P	P	P			

P = Purchaser Performance Item, D = Deposit to Forest Service, D3 = Deposit to Third Party

Road	Termini		Miles	Applicable Post Haul Road Maintenance Specifications										
	From	To		T-801	T-802	T-803	T-804	T-805	T-806	T-807	T-808	T-809	T-810	T-811
643	MP 0.0	MP 6.3	6.3	P	P	P	P	P	P	P	P			
643M	MP 0.0	MP 6.6	6.6	P	P	P	P	P	P	P	P	P		
643M5	MP 0.0	MP 0.8	0.8	P	P	P	P	P	P	P	P	P	P	
643Q	MP 0.0	MP 6.6	6.6	P	P	P	P	P	P	P	P			
643Q3	MP 0.0	MP 1.1	1.1	P	P	P	P	P	P	P	P	P		
643Q6	MP 0.0	MP 0.5	0.5	P	P	P	P	P	P	P	P	P		
643Q7	MP 0.0	MP 0.6	0.6	P	P	P	P	P	P	P	P	P		
643Q8	MP 0.0	MP 0.7	0.7	P	P	P	P	P	P	P	P	P		
643QA	MP 0.0	MP 0.5	0.5	P	P	P	P	P	P	P	P	P		
643QC	MP 0.0	MP 1.3	1.3	P	P	P	P	P	P	P	P	P	P	
643R	MP 0.0	MP 0.6	0.6	P	P	P	P	P	P	P	P	P	P	
643S	MP 0.0	MP 2.0	2.0	P	P	P	P	P	P	P	P	P	P	
643U	MP 0.0	MP 0.7	0.7	P	P	P	P	P	P	P	P	P	P	
654	MP 0.0	MP 1.7	1.7	P	P	P	P	P	P	P				
654E	MP 0.0	MP 0.3	0.3	P	P	P	P	P	P	P				

P = Purchaser Performance Item D = Deposit to Forest Service D3 = Deposit to Third Party

Road Maintenance T-Specifications
for
Timber Sale Contracts

No.	Specification Title
T-800	Definitions
T-801	Slide and Slump Repair
T-802	Ditch Cleaning
T-803	Surface Blading
T-804	Surfacing Repair
T-805	Drainage Structures
T-806	Dust Abatement
T-807	Roadway Vegetation
T-808	Miscellaneous Structures
T-809	Waterbars
T-810	Barriers
T-811	Surface Treatment

SPECIFICATION T-800 DEFINITIONS

Wherever the following terms or pronouns are used in Specifications T-801 through T-811, the intent and meaning shall be interpreted as follows:

800-1.1 - Agreement. Maintenance projects require a mutually acceptable method to resolve the problems which arise when incompatible situations arise between drawings and specifications and actual conditions on the ground to allow orderly and satisfactory progress of the maintenance.

These specifications have been developed in anticipation of those problem areas and have provided that such changes will be by Agreement.

It is intended that drawings and specifications will govern unless "on-the-ground" conditions warrant otherwise, when specifications call for "Agreement", "agreed", or "approval" such Agreement or approval shall be promptly confirmed in writing.

800-1.2 - Annual Road Maintenance Plan. A plan prepared by various users of one or several roads. The plan is an Agreement on maintenance responsibilities to be performed for the coming year.

800-1.3 - Base Course. Material used to reinforce Subgrade or, as shown on drawings, placed on Subgrade to distribute wheel loads.

800-1.4 - Berm. Curb or dike constructed to prevent Roadway runoff water from discharging onto embankment slope.

800-1.5 - Borrow. Select Material taken from designated borrow sites.

800-1.6 - Crown, Inslope, and Outslope. The cross slope of the Traveled Way to aid in drainage and traffic maneuverability.

800-1.7 - Culverts. A conduit or passageway under a road, trail, or other obstruction. A culvert differs from a bridge in that it is usually entirely below the elevation of the Traveled Way.

800-1.8 - Drainage Dip. A dip in the Traveled Way which intercepts surface runoff and diverts the water off the Traveled Way. A Drainage Dip does not block the movement of traffic.

800-1.9 - Drainage Structures. Manufactured structures which control the runoff of water from the Roadway including Inslope, overside drains, aprons, flumes, downdrains, downpipes, and the like.

800-1.10 - Dust Abatement Plan. A table which lists the road, dust palliative, application rates, and estimated number of subsequent applications.

800-1.11 - Lead-off Ditches. A ditch used to transmit water from a Drainage Structure or Drainage Dip outlet to the natural drainage area.

800-1.12 - Material. Any substances specified for use in the performance of the work.

800-1.13 - Prehaul Maintenance. Road maintenance work which must be accomplished to maintain the roads to a satisfactory condition commensurate with the Purchaser's use, provided Purchaser's Operations do not damage improvements under BT6.22 or National Forest resources and hauling can be done safely. This work will be shown in the Annual Road Maintenance Plan as provided in CT5.31#.

Prehaul Maintenance work the Purchaser elects to perform will be in compliance with the Road Maintenance T-Specifications.

800-1.14 - Roadbed. The portion of a road between the intersection of Subgrade and sideslopes, excluding that portion of the ditch below Subgrade.

800-1.15 - Road Maintenance Plan. A table which shows applicable road maintenance specifications to be performed by Purchaser on specific roads.

800-1.16 - Roadside. A general term denoting the area adjoining the outer edge of the Roadway.

800-1.17 - Roadway. The portion of a road within the limits of excavation and embankment.

800-1.18 - Shoulder. That portion of Roadway contiguous with Traveled Way for accommodation of stopped vehicles, for emergency use, and lateral support of base and Surface Course, if any.

800-1.19 - Slide. A concentrated deposit of Materials from above or on backslope extending onto the Traveled Way or Shoulders, whether caused by mass land movements or accumulated ravelling.

800-1.20 - Slough. Material eroded from the backslope which partially or completely blocks the ditch, but does not encroach on the Traveled Way so as to block passage of traffic.

800-1.21 - Slump. A localized portion of the Roadbed which has slipped or otherwise become lower than that of the adjacent Roadbed and constitutes a hazard to traffic.

800-1.22 - Special Project Specifications. Specifications which detail conditions and requirements peculiar to the individual project.

800-1.23 - Subgrade. Top surface of Roadbed upon which Base Course or Surface Course is constructed. For roads without Base Course or Surface Course, that portion of Roadbed prepared as the finished wearing surface.

800-1.24 - Surface Course. The Material placed on Base Course or Subgrade primarily to resist abrasion and the effects of climate. Surface Course may be referred to as surfacing.

800-1.25 - Surface Treatment Plan. A table which lists the roads and surface treatments to be applied.

800-1.26 - Traveled Way. That portion of Roadway, excluding Shoulders, used for the movement of vehicles.

800-1.27 - Turnouts. That portion of the Traveled Way constructed as additional width on single lane roads to allow for safe passing of vehicles.

800-1.28 - Water Source. A place designated on the Road Maintenance Map for acquiring water for road maintenance purposes.

800-1.29 - Waterbar. A dip in the Roadbed which intercepts surface runoff and diverts the water off the Roadway. A Waterbar is not designed to be traversable by logging trucks.

SPECIFICATION T-801 SLIDE AND SLUMP REPAIR

DESCRIPTION

1.1 Slide removal is the removal from Roadway and disposal of any Material, such as soil, rock, and vegetation that cannot be routinely handled by a motorgrader during Ditch Cleaning, T-802, and Surface Blading, T-803 Operations.

Slump repair is the filling of depressions or washouts in Roadway which cannot be routinely filled by a motor grader during Surface Blading, T-803 Operations.

Slide removal and Slump repair includes excavation, loading, hauling, placing, and compacting of waste or replacement Material and the development of disposal or borrow areas.

REQUIREMENTS

3.1 Slide Material, including soil, rock and vegetative matter which encroaches into the Roadway, shall be removed. The slope which generated the Slide Material shall be reshaped during the removal of the Slide Material with the excavation and loading equipment. Slide Material deposited on the fillslope and below the Traveled Way will not be removed unless needed for slope stability or to protect adjacent resources.

Surface and Base Courses shall not be excavated during Slide removal operations.

Slide Material which cannot be used for other beneficial purposes shall be disposed of at disposal sites shown on Sale Area Map. Material placed in disposal sites will not require compaction unless compaction is shown on Road Maintenance Plan.

3.2 When filling Slumps or washouts, Material shall be moved from agreed locations or borrow sites, placed in layers, and compacted by operating the hauling and spreading equipment uniformly over the full width of each layer.

Existing aggregate surfacing shall be salvaged when practical and relaid after depressions have been filled.

Damaged aggregate base, aggregate surfacing, and bituminous pavement shall be repaired under Specification T-804 Surfacing Repair.

The repaired areas of the Slump shall conform to the cross-section which existed prior to the Slump and shall blend with the adjacent undisturbed Traveled Way.

3.3 The maximum volume of Purchaser responsibility for Slide and Slump repair is shown on Road Maintenance Plan. Greater volumes of Slide and Slump repair not qualifying as Catastrophic Damage are Forest Service responsibility.

SPECIFICATION T-802 DITCH CLEANING

DESCRIPTION

1.1 Ditch cleaning is removing and disposing of all Slough Material from Roadway ditches to provide a free-draining waterway.

REQUIREMENTS

3.1 Ditch cleaning shall be repeated during the year as often as necessary to facilitate proper drainage.

3.2 All Slough Material or other debris which might obstruct water flow in the Roadway ditch shall be removed. Material removed from the ditch, if suitable, may be blended into existing native road surface or Shoulder or placed in designated Berms in conjunction with Surface Blading T-803 operations.

Material removed from ditches that is not by Agreement blended into existing roads or placed in Berms shall be loaded and hauled to the disposal site designated by the Forest Service.

3.3 Roadway backslope or Berm shall not be undercut.

SPECIFICATION T-803 SURFACE BLADING

DESCRIPTION

1.1 Surface blading is keeping a native or aggregate Roadbed in a condition to facilitate traffic and provide proper drainage. It includes maintaining the Crown, Inslope or Outslope of the Traveled Way, Turnouts, and Shoulder; repairing Berms; blending approach road intersections; and cleaning bridge decks, Drainage Dips, and Lead-off Ditches.

REQUIREMENTS

3.1 Surface blading shall be performed before, during, and after Purchaser's use as often as necessary to facilitate traffic and proper drainage.

3.2 The surface blading shall preserve the existing cross-section. Surface irregularities shall be eliminated and the surface left in a free-draining state and to a smoothness needed to facilitate traffic. Surface Material which has been displaced to the Shoulders or Turnouts shall be returned to the Traveled Way. The blading operation shall be conducted to prevent the loss of surface Material and to provide for a thorough mixing of the Material being worked.

3.3 Water, taken from Water Sources designated on Sale Area Map, shall be applied during blading if sufficient moisture is not present to cut, mix, or compact the surface Material.

3.4 On native surfaced roads, Material generated from backslope Sloughing, and ditch cleaning may be blended with the surface Material being worked. On aggregate surfaced roads this Material shall not be blended with Surface or Base Course Material unless agreed otherwise.

3.5 Roadway backslopes or Berms shall not be undercut, nor shall new Berms be established unless agreed otherwise.

Berms shall be repaired by placing Material, as needed to restore the Berm, to reasonably blend with existing line, grade, and cross-section.

3.6 Drainage Dips and Lead-off Ditches shall be cleaned and maintained to reasonably blend with existing line, grade, and cross-section.

3.7 Intersecting roads shall be bladed for a distance of 50 feet to assure proper blending of the two riding surfaces.

3.8 Rocks or other Material remaining on the Traveled Way after the final pass that are larger than 4 inches in diameter or are larger than the maximum size of imported surfacing shall be removed from the Traveled Way. Unless otherwise designated by the Forest Service, the oversized Material shall be disposed of by sidecasting. Sidecasting into streams, lakes, or water courses will not be permitted.

3.9 Material resulting from work under this specification shall not remain on or in structures, such as Culverts, overside drains, cattleguards, ditches, Drainage Dips, and the like.

3.10 Material resulting from work under this specification, plus any accumulated debris, shall be removed from bridge decks and the deck drains opened.

SPECIFICATION T-804 SURFACING REPAIR

DESCRIPTION

1.1 Surfacing repair is repairing potholes or small soft areas in the Traveled Way. It includes area preparation and furnishing and placing all necessary Materials, and other work necessary to repair the surface.

MATERIALS

2.1 Material used in the repair of soft areas on aggregate or native surfaced roads may be acquired from approved commercial sources, designated Forest Service Borrow areas, or Borrow sources agreed to. The quality and quantity of the imported Material used in the repair will be limited to that needed to provide a stable Traveled Way for hauling and to minimize damage to the road and adjacent resources. The quantity of imported surface repair Material used in the appraisal estimate will be shown on Road Maintenance Plan. However, the magnitude of the work may vary depending on Purchaser's hauling schedule and ground conditions.

2.2 Material used in the repair of bituminous pavements may be acquired from local commercial sources. If a mixing table is required, the location shall be approved by the Forest Service. The bituminous mixture to be used by the Purchaser shall be approved by the Forest Service. The Purchaser's share of the quantity of bituminous mixture used in the appraisal estimate will be shown on Road Maintenance Plan. However, Purchaser's share of the work may vary depending on Purchaser's hauling schedule, ground conditions, other traffic, etc.

REQUIREMENTS

3.1 Work under this specification shall be performed in a timely manner to reduce further deterioration of the Traveled Way.

3.2 Soft spots on aggregate or native surfaces shall be repaired by placing the imported Surface Course on top of the soft spot. Layers of imported Material shall be placed until a firm surface is produced.

3.3 Bituminous Pavement Repairs. The areas to receive bituminous pavement repairs will be marked on the road surface by the Forest Service just prior to Purchaser performing the work.

3.4 Potholes (deep patch). Surface Course and Base Course Materials shall be excavated to a depth necessary to reach firm, suitable Material. The minimum depth of excavation shall be 2 inches and the maximum depth of excavation shall be to the top of the Subgrade.

The edges of the prepared hole shall be extended to form a vertical face in unfractured asphalt surfacing. The prepared hole shall generally be circular or rectangular in shape, dry, and cleaned of all loose Material.

Prepared potholes shall be patched or barricaded immediately.

The faces of the prepared hole shall be tacked with a slow-setting emulsified asphalt.

The bituminous mixture shall be placed in layers not exceeding a compacted depth of 2 inches. Each layer shall be compacted thoroughly with hand or mechanical tampers or rollers. Compaction shall not be done with equipment wheels.

Upon completion, the compacted patch in the pothole shall be flush, with a tolerance or approximately $\frac{1}{4}$ inch to $\frac{1}{2}$ inch above the level of the adjacent pavement.

3.5 Skin Patches. Bituminous mixture shall be distributed uniformly with feathered edges in layers not to exceed 2 inches compacted depth. When multiple layers are ordered, joints shall be offset at least 6 inches between layers.

Each layer shall be compacted by two passes with a 7-10 ton steel roller or comparable vibratory roller.

3.6 Asphalt Berm. Damaged segments of Berm shall be removed and the exposed ends beveled at approximately 45 degrees from vertical. The Berm foundation shall be cleaned and patched as necessary. The foundation and joining surfaces shall be coated with a slow-setting emulsified asphalt. Asphalt mix shall be placed and compacted to conform with the shape and alignment of the undamaged segment.

3.7 Disposal. All Materials removed from potholes, patches, and Berms shall be disposed of at disposal sites designated by the Forest Service.

SPECIFICATION T-805 DRAINAGE STRUCTURES

DESCRIPTION

1.1 This work consists of maintaining Drainage Structures and related items such as inlet and outlet channels, existing riprap, trash racks, and dropinlets.

MATERIALS

2.1 All Materials used in the maintenance of Drainage Structures shall conform by type and specification to the Material in the structure being maintained.

REQUIREMENTS

3.1 Drainage Structures and related items shall be cleared of all foreign Material which has been deposited above the bottom of the structure and all vegetative growth which interferes with the flow pattern. Material removed that cannot be incorporated into maintenance work shall be hauled to a disposal site designated by the Forest Service.

3.2 If outlet or inlet riprap was installed by Purchaser as a construction item or existed prior to Purchaser's haul, it shall be maintained in good condition including the replacement of riprap if necessary to previous line, grade, and cross-section.

3.3 Perform maintenance to insure the proper functioning of the head walls, aprons, inlet assemblies, overside drains, riprap, trash racks, and other facilities related to the Drainage Structure.

SPECIFICATION T-806 DUST ABATEMENT

DESCRIPTION

1.1 This work shall consist of preparing Traveled Way and furnishing and applying Materials to abate dust.

MATERIALS

2.1 The roads requiring dust abatement, type of dust abatement Material to be used, the rates of application, and frequency of applications will be shown on Dust Abatement Plan (CT5.31#). The Dust Abatement Plan may be changed by written Agreement.

2.2 Water. The locations of Water Sources are shown on Sale Area Map.

2.3 Dust abatement Materials shall meet the requirements of the following subsections of Forest Service Specifications for Construction of Roads and Bridges or attached Special Project Specifications.

Emulsified Asphalt	702
Blotter Material	703.12
Magnesium or Calcium Chloride Brine	723.01
Calcium Chloride Flake	723.02
Lignin Sulfonate	723.03

2.4 Testing of Materials. Certification and sampling of bituminous Materials lignin sulfonate, and magnesium chloride shall be in accordance with subsections 105.04 or 723.04 of Forest Service Specifications for Construction of Roads and Bridges.

REQUIREMENTS

3.1 General. Dust abatement Materials shall be applied to the road surface as necessary to control road surface loss, provide for road user safety, and minimize damage to adjacent resources.

3.2 Compaction. When the methods listed below specify compaction, Traveled Way shall be compacted by an 8 to 10 ton pneumatic, steel-wheeled or equivalent vibrating roller making 2 passes over the full Traveled Way and Shoulder width, unless compaction is not required on the Dust Abatement Plan (CT5.31#).

3.3 Preparation to Dust Abatement Materials Other Than Water. The following applies to all methods of preparation:

Bituminous residue shall be scarified and pulverized to produce loosened Material not exceeding 4 inches in greatest dimension.

Traveled Way shall be bladed in accordance with T-803.

Prior to applying DO-6BA, DO-6PA, or DO-8, the top 2 inches of Traveled Way shall contain not less than 80 percent nor more than 120 percent of optimum moisture as determined by AASHTO T-99, Method C. Prior to applying other bituminous Material, Traveled Way shall have a moisture content between 1 and 3 percent. If surface dusting prevents the bituminous Material from penetrating, a light application of water shall be applied just prior to applying the bituminous Material.

Lignin Sulfonate and magnesium chloride shall be applied when the top 1 inch of Traveled Way contains not less than 3 percent moisture, nor more than 120 percent of optimum moisture as determined by AASHTO T-99, Method C.

Moisture content will be determined in accordance with AASHTO T-217 OR T-239.

One or more of the following methods shall be used, as specified in the Dust Abatement Plan (CT5.31#).

Method 1. Compact Traveled Way and apply the dust abatement Material.

Method 2. Develop a layer of loose Material approximately 1 inch in depth for the full width of Traveled Way. Apply the dust abatement Material to this loose Material and compact after penetration. If traffic makes maintenance of the loose Material difficult, 1 inch of the Material may be bladed into a windrow along the Shoulder. The specified moisture content shall be maintained in the windrow and the top 1 inch of Traveled Way. The windrow shall be bladed to a uniform Material. When the dust abatement Material has penetrated, Traveled Way shall be compacted.

Method 3. Blade 1 inch of Material from Traveled Way into a windrow along the Shoulder. Maintain the specified moisture content in the windrow and the top inch of Traveled Way. Apply half the dust abatement Material. When the dust abatement Material has penetrated, the windrow shall be bladed to a uniform depth across dust abatement Traveled Way, and the remaining dust abatement Material shall be applied. Traveled Way shall be compacted.

Method 4. Develop a layer of loose Material approximately 2 inches in depth for the full width of Traveled Way. Apply half the dust abatement Material to the loose Material. Blade the top 2 inches into a windrow along the Shoulder. Apply the remaining dust abatement Material to Traveled Way and the Berm. Spread the Berm evenly across Traveled Way and compact.

3.4 Preparation for Dust Abatement with Water. Traveled Way shall be prepared in accordance with Specification T-803 Surface Blading when required.

3.5 Application Tolerance. Dust abatement Materials other than water shall be applied within 0.05 gallons per square yard of the rate specified.

3.6 Mixing Requirements. DO-6BA, DO-6PA, and DO-8 shall be thoroughly circulated in the distributor within 1 hour of application.

3.7 Weather Limitations. Dust abatement Materials shall not be applied when it is raining.

Bituminous Material shall be applied when the surface temperature of Traveled Way is 50 degrees Fahrenheit or higher.

Lignin sulfonate and magnesium chloride shall be applied when the atmospheric temperature is 40 degrees Fahrenheit or higher.

3.8 Blotter Material. Blotter Material shall be spread in a sufficient quantity to prevent tire pickup.

SPECIFICATION T-807 ROADWAY VEGETATION

DESCRIPTION

1.1 This work consists of cutting and disposing of all vegetative growth, including trees on roadway surfaces and roadsides that reduce sight distance and operational capability of the road within the clearing limits as described in the Road Maintenance Plan.

REQUIREMENTS

3.1 Cut brush, trees and other vegetative matter within the clearing limits to a maximum height of 6 inches above the ground surface or obstruction such as rocks or existing stumps which reduces sight distance, impedes vehicular travel or interferes with road maintenance operations, such as surface blading and ditch and culvert cleaning shall be removed. Timber meeting utilization standards shall be cut in appropriate lengths and decked along the Roadside in locations where the Traveled Way or sight distances will not be impaired.

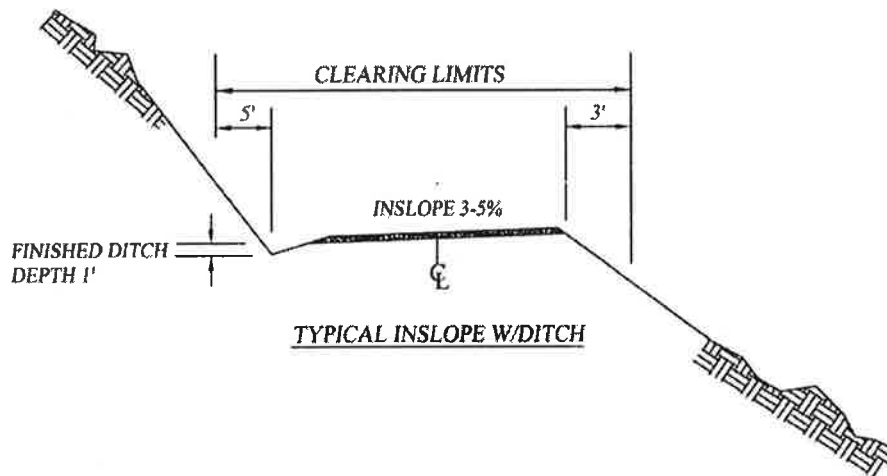
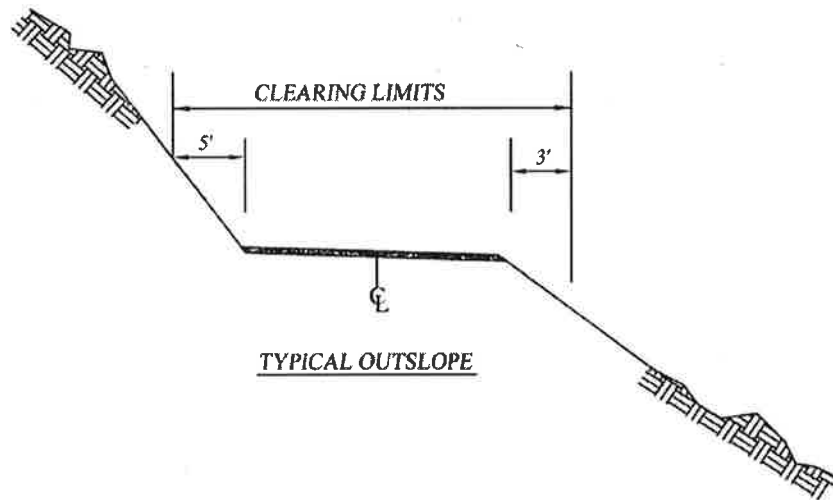
3.2 Any items to remain will be Designated by the Forest Service.

3.3 Trim tree branches that extend over the road surface and shoulders to attain a clear height of 14 feet. When trees are limbed, cut limbs within 4 inches or less of the trunk.. If required, remove other branches to present a balanced appearance.

3.4 Work may be performed either by hand or mechanically unless specifically shown in the Road Maintenance Plan. Self-propelled equipment is not allowed on cut and fill slopes or in ditches.

3.5 Vegetative matter and nonmerchantable timber cut from the Clearing Limits shall be treated by the specified method as required by C6.7# - SLASH TREATMENT.

T-807 DIAGRAMS AND SPECIFICATIONS FOR ROADWAY VEGETATION



SPECIFICATION T-808 MISCELLANEOUS STRUCTURES

DESCRIPTION

1.1 Maintenance of miscellaneous structures includes cattleguards, gates, and other similar structures that have been previously installed to insure safe and efficient operation of the road.

MATERIALS

2.1 Any Materials needed in the maintenance of miscellaneous structures shall be similar in type and quality to the Material in the structure being maintained.

REQUIREMENTS

3.1 Cattleguards. Loose rails shall be welded or bolted back in place.

Excess Material carried into the cattleguard shall be removed when drainage is blocked or when it reaches 6 inches from the bottom of the cattleguard frame. Drainage into and from the cattleguard shall be kept open.

3.2 Gates. Gates shall be kept in good repair and made to swing easily. Hinges or latches shall be repaired if not operating properly.

Brush and debris shall be removed from within the swinging radius.

SPECIFICATION T-809 WATERBARS

DESCRIPTION

1.1 This work consists of installing or removing Waterbars in the Roadbed.

REQUIREMENTS

3.1 Waterbars shall be installed on roads shown on Road Maintenance Plan in accordance with the attached drawings and at locations designated or staked on the ground.

All Material excavated shall be used in the installation of the Waterbar. Bermed Material shall be compacted by operating heavy equipment over the length and width of the Berm.

3.2 Waterbars shall be removed on roads shown on Road Maintenance Plan by blading the Berm into the adjacent depression to form a smooth transition along the Traveled Way. The length and width of the fill Material shall be compacted by the equipment performing the work.

3.3 Waterbars may be required to be installed between seasons of use and then removed when haul is resumed. Waterbar installation may also be required when use of a road has been completed.

USDA-FOREST SERVICE

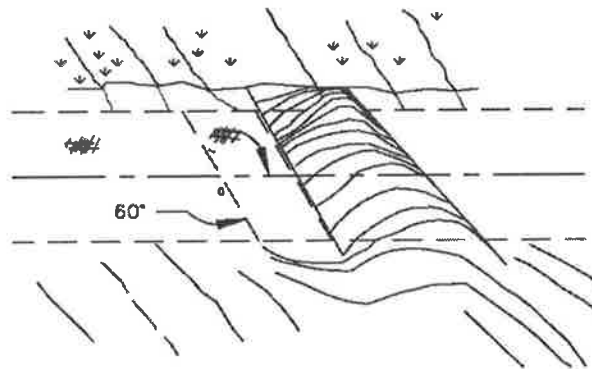
T-809 - Diagrams and Specifications for Waterbar Construction

Waterbars are designated by colored flagging

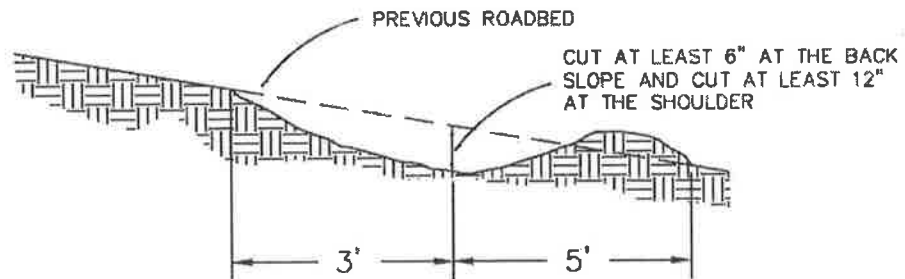
SPECIFICATIONS

1. Slope waterbars diagonally out and downgrade at a minimum angle of 60 degrees with the centerline of the road. Tie waterbar securely to the back slope.
2. Cut roadbed to a depth of at least six inches at the back slope and to a depth of at least 12 inches at the shoulder.

DIAGRAMS



VIEW OF COMPLETED WATERBAR



CROSS SECTION OF WATERBAR

SPECIFICATION T-810 BARRIERS

DESCRIPTION

1.1 This work shall consist of furnishing, installing, or removing barriers. Gates are not included.

MATERIALS

2.1 Materials for barriers shall meet the requirements as shown on attached drawings.

REQUIREMENTS

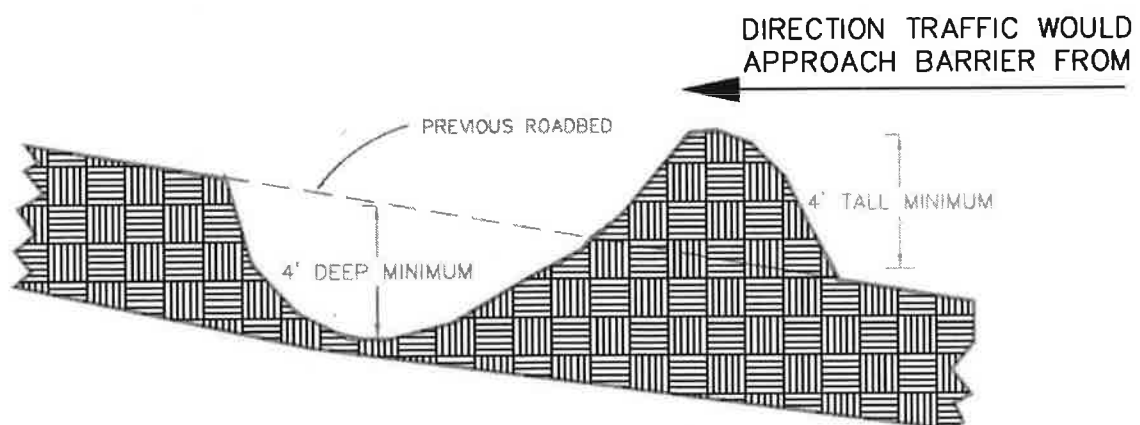
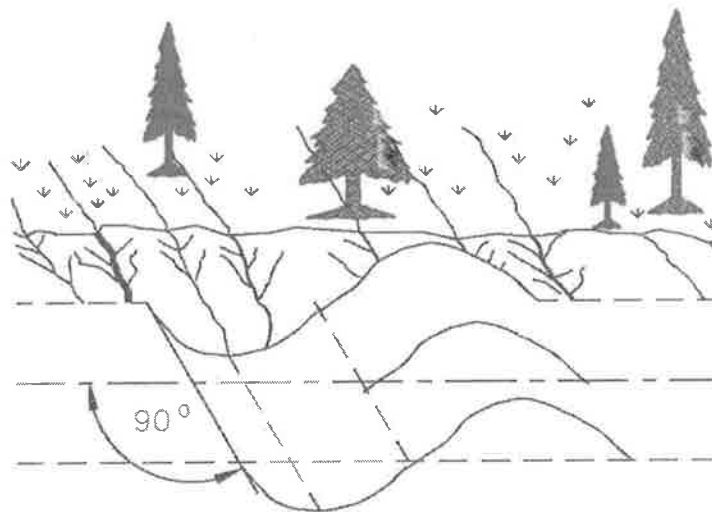
3.1 Barriers shall be installed in accordance with the attached drawings.

The location of barriers to be removed or installed is shown on Sale Area Map. Installation or removal may occur as often as road use is terminated and resumed.

USDA--FOREST SERVICE

T-810 - Diagrams and Specifications for Temporary Barricades

1. Earth barriers shall slope outward to drain at an angle of 90 degrees from the centerline of the road.
2. The barrier shall be constructed to block the entire roadway width.



T-810-2

Sale Name: High Buck

C5.32# - ROAD MAINTENANCE DEPOSIT SCHEDULE (08/2012)

Other provisions herein notwithstanding, when Forest Service requests payment in lieu of Purchaser's performance of road maintenance, Purchaser shall make Required Deposits (16 USC 537) for current and/or deferred road maintenance. Such deposits are based on the estimated volume and distance hauled and Purchaser's commensurate use of each road listed in the Road Maintenance Plan in C5.31#.

Purchaser and Forest Service may agree in writing on adjustment of such rates. If Purchaser uses roads under jurisdiction of Forest Service other than those listed in the Road Maintenance Plan, Forest Service shall establish rates commensurate with Purchaser's use of such roads.

The Required Deposits for Forest Service work in lieu of Purchaser performance are N/A per Ton for recurrent maintenance, and \$1.38 per Ton for deferred maintenance.

The following table lists who Purchaser will make deposits for road maintenance to, and the rate per unit of measure of the deposit. The Road Maintenance Agreement is available for inspection at the Forest Supervisor's office.

Deposit Made To	Rate	Unit of Measure
N/A		

C5.34# - OBLITERATION OF TEMPORARY ROADS, SKID TRAILS AND LANDINGS (03/2002)

Unless otherwise agreed in writing, temporary roads, skid trails and landings associated with the cutting unit(s) listed in the following table shall be obliterated using the method described below:

See Obliteration Table

C5.34# – OBLITERATION OF TEMPORARY ROADS, SKID TRAILS AND LANDINGS. (03/2002)

Cutting Unit(s)	Type of Facility	Closure Method
All	Skid Trails	All skid trails shall be reclaimed after use. Reclamation methods may include but are not limited to: recontouring, scarifying, ripping to 12", slash coverage of at least 30%, revegetation with trees or shrubs and seeding with Forest Service approved seed mix per C6.601#. Closure methods for trails will be agreed to at the time locations are approved.
All	Constructed Landings	Topsoil must be stockpiled, replaced, evenly spread and sloped to facilitate drainage. Landings shall be ripped to a depth of 12-18" and slash spread over at least 30% of the landing area. The area shall be seeded with a Forest Service approved seed mix per C6.601#. All landings will be closed to public use.
All	Temporary Roads	All temporary roads shall be fully recontoured after use. Recontouring will consist of pulling excavated fill slope material on to the road prism, and reshaping to blend with the surrounding terrain and slope to the maximum extent possible. Slash will be spread over at least 30% of the recontoured area. The area shall be seeded with a Forest Service approved seed mix per C6.601#.

Sale Name: High Buck

C5.36# - SNOW REMOVAL (09/2001)

Snow removal shall be done in a manner to preserve and protect the roads to insure safe and efficient transportation and to prevent unacceptable erosion damage to roads, streams, and adjacent lands.

A. Description. Snow removal work by Purchaser shall include:

1. Removal of snow from entire road surface width including turnouts.
2. Removal of snow slides, minor earth slides, fallen timber and boulders that obstruct normal road surface width including turnouts.
3. Maintain drainage so that the drainage system will function efficiently.

B. Performance. All items of snow removal shall be done currently as necessary to insure safe, efficient transportation. Work shall be done in accordance with the following minimum standards of performance.

1. Removal of material. All debris, except snow and ice, that is removed from the road surface and ditches shall be deposited away from stream channels at agreed locations.
2. During snow removal operations, banks shall not be undercut nor shall gravel or other selected surfacing material be bladed off the roadway surface.
3. Ditches and culverts shall be kept functional during and following roadway use.
4. Snow berms shall not be left on the road surface. Berms left on the shoulder of road shall be removed and/or drainage holes shall be opened and maintained. Drainage holes shall be spaced as required to obtain satisfactory surface drainage without discharge on erodible fills.
5. Dozers and skidders shall not be used to plow snow on system roads without written approval of Forest Service. Upon approval, dozers and skidders must be equipped with shoes or runners to keep the plow blade a minimum of 6 inches above the road surface unless specifically removed from the requirements in writing.
6. Snow must not be removed to the road surface. A minimum 6 inch depth must be left to protect the roadway.
7. Purchaser's damage from, or as a result of, snow removal shall be restored in a timely manner.

Sale Name: High Buck

C5.41# - CLOSURE TO USE BY OTHERS (04/2004)

A. Closure of Roads During Period of Contract. Unless otherwise agreed in writing between Purchaser and Forest Service, Purchaser shall within 15 days of receipt of notice from Forest Service, install gates listed below and close gates on roads designated "To Be Closed" on Sale Area Map and listed below to effectively block access behind such gates to vehicle traffic except that constituting official use. Installation of gates shall follow closure details attached hereto and made a part hereof.

Official vehicle traffic shall constitute that use by Purchaser and his employees when engaged in timber sale activities. It shall also include administrative traffic by Forest Service, and other landowners for the administration of their lands. Purchaser will close gates as directed by Forest Service at the completion of daily activities or close gates after passage of each vehicle. Forest Service will monitor and administer closure activities.

See Gate Location(s) Table

B. Closure of Roads at End of Purchaser's Use. Unless otherwise agreed in writing between Purchaser and Forest Service, upon completion of use, Purchaser shall effectively close to public use the following roads designated "To Be Closed" on Sale Area Map and listed below. As an element of final road maintenance and environmental or resource protection, the designated closure shall be accomplished by using the methods required for each road as described below:

Installation of barricades, which may include earth berms, logs, timber, rock, metal railing, etc., in accordance with details attached hereto and made a part hereof, including the proper barricade and closure signing.

Scarify, seed, and fertilize these travel ways full width as described in C6.601#. Recontour or reshape cut or fill slopes in accordance with details attached hereto and made a part hereof; seed, scarify, and fertilize as described under C6.601#; pull existing drainage structures; haul designated culverts to approved stockpile site, or other work needed to obliterate or put road to bed as described in attached road logs or details.

Construct cross ditches by cutting a dip at least six (6) inches deep in the road surface and mounding the excavated material along the downgrade edge of the dip. Dips shall be cut at a sufficient angle so that they will drain to the outside of the road. They shall cross the entire width of the roadbed and be constructed at the following spacing:

See Water Dip Specifications Table

See Close and Lock Existing Gate(s) Table

During the life of this contract, Purchaser is authorized to install temporary barricades on the roads designated "To Be Closed." Gates with adequate and protected locks may be considered a temporary barricade. Temporary barricades shall be installed so that they may be readily opened by Purchaser or Forest Service for access to Sale Area in case of fire or other emergency. Official vehicle traffic shall also include administrative traffic by Forest Service and other landowners for the administration of their lands. Purchaser shall provide and post approved signs as authorized by Forest Service.

C. Purchaser's Operations in areas otherwise closed to motorized vehicles. During the period January 1 to December 31 when Purchaser's Operations are in areas otherwise closed to motorized vehicles, Purchaser shall not be permitted to hunt, transport hunters, discharge firearms, or transport big game animals with vehicles within the closed areas.

C5.41# - CLOSURE TO USE BY OTHERS. (04/2004)

Gate Location(s)				
Road Number	Location	Gate Furnished By	Gate Installed By	In Place
643Q	MP 0.1	FS	FS	YES
643Q3	MP 0.1	FS	FS	YES

Cross Ditch	
Percent Grade	Maximum Spacing
See C5.31# Road Maintenance Requirements – Road Maintenance Plan T-809 Waterbars	

Closure Location(s)				
Road Number	Location	Closure Method 2/	Furnished By 1/	In Place 3/
643M5	Intersection with 653M	Earthen Barrier	Purchaser	NO
643R	Intersection with 643	Earthen Barrier	Purchaser	NO
643S	Intersection with 643	Earthen Barrier	Purchaser	NO
643U	Intersection with 643	Earthen Barrier	Purchaser	NO
643QC	Intersection with 653 (MP 18.9 and 18.1)	Earthen Barrier	Purchaser	NO

Sale Name: High Buck

C6.223 - PROTECTION OF FENCES (09/2001)

Unless otherwise agreed to in writing, all fences, as designated on Sale Area Map, which are required to be cut because of temporary road construction, skid road construction, or other logging activities, shall not be cut until the fence has first been "line braced" or "fence braced," to prevent loss of tension, on both sides of the wire span or series of short spans to be cut.

The Purchaser shall install temporary cattleguards in accordance with attached plans at each location where the fence is cut for temporary road access unless otherwise approved in writing by Forest Service. All fences will be restored promptly after logging to the condition existing immediately prior to logging. Fence repair will be kept current with logging operations.

C6.24# - SITE SPECIFIC PROTECTION MEASURES (04/2004)

Special protection measures needed to protect known areas identified on Sale Area Map or on the ground include:

Cultural Resource Protection Measures: Cultural resources encountered during the implimentation of the project will be protected. Operations within the vicinity will be suspended immediately and the Forest Service notified. A qualified archeologist will make a determination of protection measures required for the site.

Wildlife and Botanical Protection Measures: when taking water from fish bearing streams identified by the Forest Service for specified road maintenance or other sale related activites, water intake hoses shall be screened by mesh with 3/32 size openings or smaller as directed by the Forest Service.

Elk wallows shall be protected. If encountered, operations shall be suspended within 130 feet of the wallow and the Forest Service notified. A qualified Forest Service biologist will determine the protection measures necessary on a case by case basis.

Cave Resource Protection Measures: N/A

C6.30# - SCHEDULE OF OPERATIONS (07/2016)

Unless otherwise agreed in writing, (and with the exception of specified road construction activity), no more than 1/ one Subdivision(s) may be operated at one time. Upon completion of all contract requirements in each of the subdivision(s), written permission will be granted to operate in additional subdivisions.

Sale Name: High Buck

C6.312# - SALE OPERATION RESTRICTIONS (04/2004)

Unless otherwise agreed in writing, sale operations will be restricted as listed below:

See Sale Operation Restrictions Table

C6.312# - SALE OPERATION RESTRICTIONS. (04/2004)

Sale Operation Restriction Schedule

Payment Unit / Cutting Unit	Restriction	Purpose
All	<p>Upon discovery of an active Goshawk nest within the Sale Area the following restrictions shall be applied:</p> <ol style="list-style-type: none"> 1. No removal of commercial material shall occur within a 650 foot radius of an active Goshawk nest. 2. In addition, no commercial harvest (Including yarding), noncommercial thinning, or road construction/reconstruction should occur within a 1,500 foot buffer around active goshawk nest trees from March 1 to August 15 	Protect Northern Goshawk nesting. (No nests are currently located within the Sale Area Boundary).
All	Commerical harvest (Including yarding), noncommercial thinning, or road construction/reconstruction including temporary road construction may not occur between May 1 through August 15.	Protect Flamulated Owl nesting
All	Fuel storage, refueling, or servicing of vehicles will not be allowed in SMZ's unless designated by the Forest Service.	Reduce impacts to aquatic resources
All	Log landings will be located outside designated SMZ's unless designated by the Forest Service. For landings located within SMZ's, erosion control measures will be implemented to prevent sediment delivery to the stream as agreed to in writing.	Reduce impacts to aquatic resources
All	<p>Upon discovery of an active bald eagle nest during project implementation the following timing and spatial restrictions on proposed activities shall be implemented to minimize or avoid disruption of reproductive activity:</p> <ol style="list-style-type: none"> 1. No commercial harvest, non-commercial thinning, mechanical fuel abatement, or road construction/reconstruction activities shall occur within 660 feet of the nest tree for the duration of the nesting period (February 1 through August 31) 2. Removal of overstory trees should not occur within 330 feet of the nest tree to retain nesting stand characteristics including perch trees. Thinning of trees in the understory should occur outside of the nesting period or when eagles are otherwise not present as determined by the project wildlife biologist. Nest trees shall not be harvested. 	Protect Bald Eagle Nesting (No nests are currently located within the Sale Area Boundary)

Sale Name: High Buck

C6.341 - PREVENTION OF OIL SPILLS (IDAHO FORESTS) (05/2006)

If Purchaser maintains storage facilities for petroleum or petroleum products on Sale Area, Purchaser shall take appropriate preventive measures to ensure that any spill of such petroleum or petroleum products does not enter any stream or other waters of the United States or any of the individual States.

Petroleum or petroleum product storage containers with capacities of more than 200 gallons, stationary or mobile, shall be located no closer than 100 feet from stream, watercourse, or area of open water. Dikes, berms, or embankments shall be constructed to contain at least 110% of the volume of petroleum products stored within the containers. Diked areas shall be sufficiently impervious and of adequate capacity to contain spilled petroleum products.

If the total petroleum or petroleum products storage exceeds 1,320 gallons in containers of 55 gallons or greater, Purchaser shall prepare a Spill Prevention Control and Countermeasures (SPCC) Plan. Such plan shall meet applicable EPA requirements (40CFR 112), including certification by a registered professional engineer.

Purchaser shall notify Contracting Officer and appropriate agencies of all reportable (40CFR 110) spills of petroleum or petroleum products on or in the vicinity of Sale Area that are caused by Purchaser's employees, agents, contractors, subcontractors, or their employees or agents, directly or indirectly, as a result of Purchaser's operations. Purchaser will take whatever initial action that may be safely accomplished to contain all spills.

C6.411# - FELLING AND BUCKING (SPECIAL OBJECTIVES) (11/1998)

Unless otherwise agreed in writing, silvicultural prescriptions and land management objectives shall be conducted and accomplished by the following requirements, methods and procedures:

See Felling and Bucking Table

C6.411# - FELLING AND BUCKING (SPECIAL OBJECTIVES). (11/1998)

Cutting Unit

Special Objectives

All

Felling shall not be performed until the location of all landings, skid roads, and skid trails have been flagged by the contractor and agreed upon by the Forest Service.

Trees shall be felled insofar as topography and lean permit, with ends angled toward skid roads, or skid trails, in the direction of skidding along such skidways, and so that existing reproduction and residual trees are not damaged.

Fell trees away from Stream Management Zones as identified in C6.50#.

Trees shall be skidded prior to limbing or topping (Whole Tree Yard), unless excessive damage, as determined by the Forest Service, occurs to the residual stand.

Trees shall be felled away from fences.

C6.36# - ACCEPTANCE OF WORK (07/16)

Upon Purchaser's written request and assurance that marking or cutting to prescription has been completed in a cutting unit in accordance with **C2.355# - DESIGNATION BY PRESCRIPTION (05/15)**, the Forest Service shall perform an inspection within 5 days, excluding weekends and federal holidays, so as not to delay unnecessarily the progress of purchaser's operations. Unless otherwise agreed in writing, procedures for inspecting Purchaser marking under C2.355# are as follows:

Inspection and Acceptance

The Purchaser's annual operating plan shall include anticipated marking schedule and plans for the upcoming season as required under clause B6.31. All marking shall be completed and inspection requests submitted greater than eighteen months prior to the contract termination date, unless otherwise agreed in writing.

The Purchaser will not request inspection of marking on less than 20 acres and not more than 100 acres, unless otherwise agreed to in writing. The Purchaser will not submit additional acres for inspection until previously submitted acres have been accepted by the Forest Service.

Inspection and acceptance of work shall comply with B6.36 Acceptance of Work, although, the Forest Service will only accept inspection requests during snow free periods, unless otherwise agreed in writing. The typical snow free period in the contract area is from mid-May through late October.

The inspection process will begin when the Purchaser submits the Subunit Marking Inspection Request Form (Exhibit B-1) and other required information, as described below. Inspection and acceptance of marking will be done only on entire subunits. Only a complete and accepted Cutting Unit (C2.301#) as shown on the Sale Area Map can be released for cutting.

The Purchaser shall provide the following information for each individual subunit to the Forest Service at the time of inspection request:

- A completed Subunit Marking Inspection Request Form (Exhibit B-1).
- Copies of completed Purchaser Marking Inspection Form (Exhibit B-2) for all plots within the requested subunit.
- Geographic (decimal degree) coordinates [in WGS84 datum] of:
 - all snags where an 83-foot no treatment buffer was applied as specified under the *required* section of *Cutting Specifications*. (C2.355#)
 - previously unidentified features including springs, seeps, streams, wetlands, elk wallows, historical or cultural sites and threatened or endangered species (C6.24#, C6.312#, C6.50#)

The Forest Service shall conduct a review of each subunit using the *Forest Service Method of Assessment* shown in **Table 1 – Performance Standards**. Acceptance of work shall be based on the Purchaser meeting each of the individual *Performance Standards* listed in **Table 1 – Performance Standards**, unless otherwise agreed to in writing. If any of the submitted work is found to have an element(s) that is not with in the tolerances set forth in the *Performance Standards*, the Purchaser shall be notified that the

work is unacceptable. The Forest Service shall inform the Purchaser of the *Performance Standard(s)* that is unacceptable and the steps necessary to make the element(s) acceptable.

When the Purchaser has reworked the unacceptable *Performance Standard(s)* they shall resubmit all required documentation to the Forest Service. The Forest Service will assess the reworked *Performance Standard* based on the *Forest Service Method of Assessment*. The Purchaser shall be notified whether the rework is acceptable or unacceptable.

In the event that the Purchaser fails to comply with the *Performance Standard(s)* after the rework and second inspection, the Forest Service may initiate remedies including, but not limited to:

- Initiate terms of the contract described in this contract under clause *B9.3 - Breach*

Table 1 – Performance Standards

Work Statement C2.335#	Performance Standard	Forest Service Method of Assessment	Incentive/Deduction
Marking Inspection Request Form, Purchaser Marking Inspection Form and Geographic Coordinates of Required Features	<ul style="list-style-type: none"> • All blocks of <i>Marking Inspection Request Form</i> completed and form is signed and dated • <i>Purchaser Marking Inspection Form</i> submitted for all Forest Service identified plots with in subunit AND all blocks of form completed AND form is signed and dated • Geographic (decimal degree) coordinates [in WGS84 datum] of all snags where an 83-foot no treatment buffer was applied as specified under the <i>required</i> section of <i>Cutting Specifications (C2.355#)</i> • 100% of geographic (decimal degree) coordinates [in WGS84 datum] of all previously unidentified features including springs, seeps, streams, wetlands, elk wallows, historical or cultural sites and threatened or endangered species (C6.24#, C6.312#, C6.50#) 	<ul style="list-style-type: none"> • Office inspection 	The Purchaser will be required to rework the forms prior to re-inspection and acceptance if not within performance standard.
Designation – Leave Tree Mark	<ul style="list-style-type: none"> • Color and quality of paint within specifications • No trees smaller than specified marked • 100% compliance with placement and size of DBH and butt marks 	<ul style="list-style-type: none"> • Walk-through inspection by the Forest Service 	The Purchaser will be required to rework the subunit prior to re-inspection and acceptance if not within performance standard.
Quality Control Plots	<ul style="list-style-type: none"> • 100% of quality control plots located within ± 30 feet of coordinates provided by the Forest Service • 100% of quality plots monumented as described in <i>Quality Control (C2.355#)</i> • 90% accuracy of in/out trees (both cut and leave trees) 	<ul style="list-style-type: none"> • 20% random sample of Purchaser's quality control plots by the Forest Service 	The Purchaser will be required to rework the subunit prior to re-inspection and acceptance if not within performance standard.
Designation of Required Trees	<ul style="list-style-type: none"> • 100% of <i>Required (C2.355#)</i> trees designated as leave trees, unless agreed to in writing 	<ul style="list-style-type: none"> • Walk-through inspection by the Forest Service AND 20% random sample of Purchaser's quality control plots by the Forest Service 	The Purchaser will be required to rework the subunit prior to re-inspection if not within the performance standard.
Basal Area Retention	<ul style="list-style-type: none"> • Average basal area over subunit within $\pm 20\%$ of target basal area as listed in <i>Table 1 – Designation Cutting Specifications by Sub Unit of C2.355#</i> 	<ul style="list-style-type: none"> • Walk through inspection AND 20% random sample of Purchaser's quality control plots by the Forest Service 	The Purchaser will be required to rework the subunit prior to re-inspection if not within the performance standard.
Leave Tree Selection/Preference	<ul style="list-style-type: none"> • Selection of leave trees follows preference and selection criteria as described in C2.355# <i>Cutting Specifications</i> and <i>Table 3 – Physical Characteristics to Consider When Choosing Leave Trees</i> $\geq 90\%$ of time. • Spacing is varied to select the highest preference trees and address spatial specifications as described in C2.355# <i>Cutting Specifications</i> • Clumps meet specifications as described in C2.355# <i>Cutting Specifications</i> 	<ul style="list-style-type: none"> • Walk through inspection AND 20% random sample of Purchaser's quality control plots by the Forest Service 	The Purchaser will be required to rework the subunit prior to re-inspection if not within the performance standard.

Once marking in a cutting unit (C2.301#), as shown on the Sale Area Map is completed and approved by Forest Service, the cutting unit shall be considered as Leave Tree Marked. No cutting unit listed under C2.355# (Table 1) shall be cut by Purchaser without prior acceptance from the Forest Service. No tree marked for retention shall be cut without authorization from the Forest Service.

C6.36# - ACCEPTANCE OF WORK

Exhibit B-1 – Subunit Marking Inspection Request

Purchaser must attach: Completed Purchaser Marking Inspection Forms

Subunit Number: _____ Acres: _____

of Purchaser Marking Inspection Plots in unit: _____

Target Average Basal Area (C2.355#): _____ Actual Average Basal Area? _____

Actual average basal area = sum of average basal area on plots / number of plots of the leave trees retained

Is the Actual Average Basal Area within $\pm 20\%$ of Desired? (circle one): Yes No

Other (note any attachments included with this form, as well as, special considerations or general remarks about the unit here):

Signature of Purchaser Representative: _____

Date request submitted to Forest Service: _____

Signature of Sale Administrator: _____ Date received: _____

Exhibit B-2 cont. - Contractor Marking Inspection Form – Instructions

Marking Inspection Form Instructions	
Item	Directions for Completing
Contract	Record the name of the contract
Cutting Unit	Record the cutting unit identifier that corresponds with the Sale Area Map C2.301#
Sub Unit #	Record the sub unit identifier that corresponds with the Designation by Prescription Map in C2.355#
Plot #	Sequentially number plots beginning with 1 in each sub unit
Acres	Record the acres of the sub unit from Table 1 - Designation Cutting Specifications by Sub Unit in C2.355#
Lat	Record the GPS coordinates for Latitude
Long	Record the Gps coordinates for Longitude
Tree #	Assign a number to all leave trees and all merchantable cut trees that are within the plot
Species	For all trees , record the species using the following codes: PP= ponderosa pine, DF= Douglas-fir, GF= grand fir, LP= lodgepole pine, ES= Engelmann spruce, AF= subapline fir, WL= western larch
DBH	For all trees, record the diameter at breast height to the nearest inch
Designation	Document the designation of all trees assigned a number using codes: C = cut; L = Leave
Physical Characteristics	Record the physical characteristic rating of all trees assigned a number using according to criteria in Table 3 of C2.355#
Required?	Record, for all trees assigned a number, if retention is required according to criteria in C2.355#. Y = yes or N = no
Legacy?	Use Supplement 2 - Legacy Tree Guide for the Boise National Forest. Answer Y = yes or N = no.
Tree BA - Leave	Calculate the representative basal area of every tree assigned a number and designated for leave using the formula $BA = DBH^2 * .005454 * 10$
Tree BA - Cut	Calculate the representative basal area for every tree assigned a number and designated for cut using the formula $BA = DBH^2 * .005454 * 10$
Remarks	Note any remarks about the specific tree being measured
Total BA	Enter the sum of the basal area for all trees assigned a number on the plot
Total Residual BA	Enter the sum of the basal area for all trees assigned a number and designated for retention on the plot
Signature	Signature of the Purchaser's employee responsible for the data collection
Date	Date of the data collection
Comments	Note any other considerations regarding the plot and or inspection

Sale Name: High Buck

C6.42# - SKIDDING AND YARDING (SPECIAL OBJECTIVES) (11/1998)

Unless otherwise agreed in writing, silvicultural prescriptions and land management objectives shall be conducted and accomplished by the following requirements, methods and procedures

See Skidding and Yarding Table

C6.42# - SKIDDING AND YARDING (SPECIAL OBJECTIVES). (11/1998)

Cutting Unit

All

Special Objectives

Landings and skid roads and/or skid trail will be flagged by the contractor, approved by the Forest Service, and constructed in advance of felling. Utilize existing trails whenever possible.

All skidding and yarding machinery will be required to stay on approved skid roads/trails unless agreed upon by the Forest Service.

Limbs and tops shall be hauled back after manufacturing at the landing, and placed as slash mats on skid trails to protect soil resources as directed by the Forest Service.

T/ORJ - Tractor and excavator (off-road jammer with tracked undercarriage) yarding required. Tractor yarding is restricted to slopes of 35% or less. On slopes greater than 35%, log shall be yarded by the excavator/off-road jammer. Excavator or off-road jammer must have the capacity for at least 300 feet of cable.

Constructed skid trails to log landings are restricted to gradients less than 30%. Trees designated for cutting and/or logs will be left for rub trees along skid trails as needed to protect young growth and leave trees. While tractor yarding or forwarding, trees and logs shall be skidded with the leading ends free of the ground.

Mechanized felling equipment is permitted on slopes up to 45%.

Sale Name: High Buck

C6.45# - PROTECTION FROM IPS BUILDUP (11/1998)

Unless permitted in writing by the Forest Service, there shall be no felling or bucking of Ponderosa Pine within Units All on Sale Area Map during the period December 1 to June 30. If written permission is granted, it may be conditioned upon a requirement that the purchaser provide a continuous food chain of green Ponderosa Pine material, logs, and slash during the period July 1 to September 15, following the cutting. Forest Service may allow periodic removal of logs from this chain of green material. Such green material shall be provided from periodic cutting or tree felling operations from Included Timber within the cutting units, or where such material is inadequate or not available, green material may be provided by the thinning of non-included trees within sale area upon approval by the Forest Service. If the Forest Service determines it necessary, it may direct the order and location of cutting to provide the necessary green material.

C6.50# - STREAMSIDE MANAGEMENT ZONES (11/1998)

A Streamside Management Zone (SMZ) is a zone that contains riparian vegetation and other special characteristics. Areas identified as Streamside Management Zones (SMZ's) are shown on the Sale Area Map and designated intermittent streams/wetlands/ponds & reservoirs - 130 feet from the normal high water mark. A horizontal band of orange paint on three sides of intervisible cutting unit boundary trees with vertical streaks of orange paint indicating the general direction of the boundary. Within the three-sided box formed by the paint streaks, an orange painted cutting unit number faces the area to be cut

perennial - 260 feet from the normal high water mark. The purchaser and Forest Service shall agree in writing to the methods that will be used to designate the Equipment Exclusion Area on the ground prior to entering a unit with a perennial Equipment Exclusion Area as shown on the Sale Area Map. Timber designation, conduct of logging, and/or slash treatment may differ in the SMZ from the rest of the unit. Unless otherwise agreed to in writing and notwithstanding the contract requirements otherwise applicable to each cutting unit, the following special requirements apply to the SMZ of the cutting units specified below:

See Streamside Management Zone Table

C6.50# - STREAMSIDE MANAGEMENT ZONES. (11/1998)Streamside ManagementCutting Unit(s)Zone Requirements

All

Intermittent Streams/Wetlands/Ponds & Reservoirs – SMZ consist of 130 feet slope distance from the ordinary highwater mark. No timber harvest or ground-based yarding allowed. Skidding across dry stream channels is permitted at 90 degree angles upon approval by Forest Service. Road reconstruction and/or maintenance activities are allowed.

All

Perennial Streams – Equipment Exclusion Zone consists of 260 feet slope distance from the ordinary high water mark. No timber harvest or ground based yarding is allowed within 130 feet slope distance of the ordinary high water mark. Timber harvest is allowed at distances greater than 130 feet from the ordinary high water mark, but no tracked or wheeled equipment is permitted within 260 feet of the ordinary high water mark. Trees must be removed using cable skidding with the leading ends free of the ground. See equipment exclusion zones on Sale Area Map. Road reconstruction and or maintenance activities are allowed.

Sale Name: High Buck

C6.6# - EROSION PREVENTION AND CONTROL (11/1998)

A. Purchaser shall locate Temporary Roads on locations approved by the Forest Service. Such location shall include the marking of road centerline or grade-line and the setting of such construction stakes as are necessary to provide a suitable basis for economical construction and the protection of National Forest lands.

B. Skidding with tractors within 130 feet of intermittent and 260 feet of live streams shall not be permitted except in places designated in advance by Forest Service, and in no event shall skid roads be located in live or intermittent streamcourses. Skid trails shall be located high enough out of draws, swales, and valley bottoms to permit diversion of runoff water to natural undisturbed forest ground cover.

C. Prior to periods of accelerated water runoff, especially during the spring runoff and periods of heavy rainfall, Purchaser shall inspect and open culverts and drainage structures, construct special cross ditches for road runoff, and take other reasonable measures needed to prevent soil erosion and siltation of streams.

D. Temporary Road surface width shall be limited to truck bunk width plus four (4) feet, except for needed turnouts which shall not exceed two (2) times the bunk width plus four (4) feet. If shovels or cranes with revolving carriage are used to skid or load, Temporary Road surface width equal to track width plus tail swing shall be permitted.

E. Unless otherwise agreed in writing, Purchaser shall keep erosion control work current with his operations under the sale and in any case not later than 15 days after completion of skidding on each payment unit or cutting unit.

Sale Name: High Buck

C6.601# - EROSION CONTROL SEEDING (11/1998)

Following completion of skidding and yarding operations in an area, Purchaser shall seed and fertilize all exposed areas of raw soil which has been designated by the Forest Service on skid trails, landings, firebreaks, slides, slumps, Temporary Roads and traveled ways of Specified Roads 643M5, 643R, 643S, 643U, 643QC following closure specified in C5.41#.

Soil on areas to be seeded shall be left in a roughened condition favorable to the retention and germination of the seed. Scarification of traveled ways on Specified Roads listed above shall be to a minimum depth of 2 inches and a maximum depth of 4 inches.

Seed and fertilizer shall be spread evenly at the rate of 25 pounds of seed and NA pounds of fertilizer per acre.

When fertilizer and seed are applied in separate operations, the second operation shall be carried out within 72 hours of the first.

Seeding shall be done during the period August 16th to November 15th and under the above specified conditions unless otherwise approved.

The kinds and amounts of seed to be sown in terms of pure live seed (PLS) shall be:

See Seed Application Table

All seed purchased will be certified to be free of the noxious weed seeds from weeds listed on the current "All States Noxious Weeds List." Test results from a certified seed analyst and seed analysis labels attached to the bags will be provided to the Forest Service.

The following kinds and amounts of standard commercial fertilizer shall be used with guaranteed analysis of contents clearly marked on containers:

See Fertilizer Application Table

C6.601# - EROSION CONTROL SEEDING. (11/1998)

Seed Application Table

Common Name	Scientific Name	Recommended Source ¹ or Cultivar ²	PLS LB/Acre
Annual			
Sterile Triticale Hybrid	<i>(Triticum aestivum x Secale cereale)</i>	Quickguard	10
		Annual lbs/acre	10
Perennial			
Mountain brome (BRMA4)	<i>Bromus marginatus</i>	Bromar cultivar 2 nd Choice – Garnet Cultivar	11.0
Idaho fescue (FEID12)	<i>Festuca idahoensis</i>	Joseph cultivar	2.5
Wheeler bluegrass (POWH2)	<i>Poa wheeleri</i> <i>(P.nervosa var. wheeleri)</i>	Commercial source, no cultivars available	1.5
		Perennial lbs/acre	15
Contractor Purchase - Annual + Perennial Seed		Total Lb/Acre Seed & Est. Cost Commercial Seed/Acre	25.0 LB/Acre

Fertilizer Application Table

Type of Fertilizer	Pounds Per Acre
Not Applicable	

Sale Name: High Buck

C6.602# - PROTECTION OF DISTURBED AREAS FROM ESTABLISHMENT OF NOXIOUS WEEDS (11/1998)

In addition to the requirements of C6.601#; Purchaser shall seed and fertilize areas where mineral soil is exposed as designated by the Forest Service.

Unless otherwise agreed to in writing, seeding shall be done in the early spring or fall during weather and moisture conditions favorable for quick germination and growth of the plants. Seeding shall be completed in a timely manner following the last disturbance activity by the purchaser in the disturbed area.

The Certified seed analysis reports from each container shall be provided by Purchaser to the Forest Service prior to application of the seed. Seed and fertilizer shall be spread evenly at the rate of 25 pounds of seed and NA pounds of fertilizer per acre.

When fertilizer and seed are applied in separate operations, the second operation shall be carried out within 72 hours of the first operation.

When an adequate seedbed does not exist, Purchaser shall scarify to get a 2 inch loose soil seedbed, prior to seeding.

The kinds and amounts of seed to be sown in terms of pure live seed (PLS) shall be:

See Seed Application Table

All seed purchased will be certified to be free of the noxious weed seeds from weeds listed on the current "All States Noxious Weeds List." Test results from a certified seed analyst and seed analysis labels attached to the bags will be provided to the Forest Service.

The following kinds and amounts of standard commercial fertilizer shall be used with guaranteed analysis of contents clearly marked on containers:

See Fertilizer Application Table

C6.602# - PROTECTION OF DISTURBED AREAS FROM ESTABLISHMENT OF NOXIOUS WEEDS. (11/1998)

Seed Application Table

Common Name	Scientific Name	Recommended Source ¹ or Cultivar ²	PLS LB/Acre
Annual			
Sterile Triticale Hybrid	<i>(Triticum aestivum x Secale cereale)</i>	Quickguard	10
		Annual lbs/acre	10
Perennial			
Mountain brome (BRMA4)	<i>Bromus marginatus</i>	Bromar cultivar 2 nd Choice – Garnet Cultivar	11.0
Idaho fescue (FEID12)	<i>Festuca idahoensis</i>	Joseph cultivar	2.5
Wheeler bluegrass (POWH2)	<i>Poa wheeleri</i> <i>(P.nervosa var. wheeleri)</i>	Commercial source, no cultivars available	1.5
		Perennial lbs/acre	15
Contractor Purchase - Annual + Perennial Seed		Total Lb/Acre Seed & Est. Cost Commercial Seed/Acre	25.0 LB/Acre

Fertilizer Application Table

Type of Fertilizer	Pounds Per Acre
Not Applicable	

Sale Name: High Buck

C6.7# - SLASH TREATMENT (04/2003)

Slash is defined as logs, tops, limbs, and other woody material, exclusive of stumps, which is created by the logging operation and remaining on the ground after logging. In areas where Purchaser-created slash is intermingled and inseparable with pre-existing slash, slash disposal requirements shall apply to the pre-existing slash as well as the Purchaser-created slash. Such areas are designated in the Purchaser Slash Responsibility Table herein.

Slash created in the construction of Specified Roads shall not be considered as logging slash in this Section.

Unless otherwise agreed in writing, Purchaser shall perform the following work described below and/or as shown on the Sale Area and Slash Disposal Map.

Forest Service and Purchaser shall jointly develop a schedule for completion of slash treatment on the various portions of the sale area.

See Purchaser Slash Responsibility Table

C6.7# - SLASH TREATMENT. (04/2003)Purchaser's Slash Responsibility Table

<u>Cutting Unit(s)</u>	<u>Type of Slash Disposal</u>
All	Whole Tree Yard
All	Lopping
All	Fell Damaged Residual
All	Pile Landing Slash
All	Clean System Roads

1. Whole Tree Yard

Purchaser shall skid trees with limbs and tops attached to the landing. Refer to slash table on Sale Area Map.

2. Lopping

Limbs and portions of trees broken as a result of normal felling and skidding and not containing a merchantable piece as identified in A2 will be bucked into lengths shorter than 12 feet and lopped to a depth of 3 feet in height or less above the ground.

3. Fell Damaged Residual

Purchaser shall fell all species over 5 feet in height not meeting minimum diameter specifications for Included Timber as identified in A2 that are damaged beyond recovery by the Purchaser's Operations unless otherwise agreed to in writing. These stems shall be bucked into lengths shorter than 12 feet. Resulting slash will be lopped to a depth of 3 feet in height of less above the ground.

3. Pile Landing Slash

A landing is considered a place where any logs or products are gathered for loading. All slash accumulated at landings shall be piled, unless it is agreed in writing that slash can be treated by another method.

Piles shall be reasonably compact and free of soil to facilitate burning. Piles will not be less than 10 feet in height. Piles shall be of a size and location which will not impair road use or result in damage to residual timber. Piles shall be located at least 1.5 times the typical crown radius away from the boles of residual trees unless otherwise agreed to in writing. Piles shall not be more than 40 feet long.

4. Clean System Roads

Purchaser shall lop and scatter beyond the roadway clearing limits of roads listed in C5.31# all logging slash 3 inch large end diameter or greater and 3 feet in length or greater.

Sale Name: High Buck

C6.71 - CHANGES IN SLASH TREATMENT (11/2006)

Slash treatment measures required in C6.7 may be changed upon written agreement. The Forest Service shall determine the current cost of performing the work to be deleted and the work to be added. When the cost of work deleted exceeds the cost of work added, the agreement shall provide for a lump sum payment to the Forest Service for the amount of the difference. When the cost of work added exceeds the cost of work deleted, the change may be made only if the Purchaser agrees to making the change with no cost adjustment.

C6.72# - TEMPORARY ROAD CONSTRUCTION SLASH DISPOSAL (01/2000)

Slash treatment methods of Temporary Road slash shall be agreed to in writing prior to construction. Temporary Road slash shall be treated in accordance with the following:

- A. All timber within the road clearing limits which contains a product meeting the minimum piece specifications stated in A2 shall be felled (not pushed over) and bucked in advance of road construction. All timber shall be felled within the clearing limits whenever it is feasible to do so.
- B. Timber within the clearing limits not meeting minimum piece specifications in A2 and other debris from the clearing and grubbing operations more than 3 inches in diameter and 5 feet in length shall either be (a) utilized and removed from Sale Area, (b) burned within the right-of-way, (c) removed to designated locations shown on Sale Area Map for burying or later burning, (d) buried, (e) processed through a chipping machine, (f) scattered in such a manner as to avoid concentrations of slash and without damaging other trees or resource values, (g) windrowed (h) decked, or (i) a combination thereof.
- C. All material to be treated or disposed of shall be bucked into lengths not to exceed 12 feet before being piled or buried.
- D. If debris is to be burned, burning shall be complete and shall be done at such times and in a manner approved in writing by Forest Service. Residual construction slash from burning shall be buried, scattered or removed to agreed locations.
- E. Debris to be buried shall be placed in prepared holes, benches, or trenches at agreed locations and covered with not less than NA feet of native soil or rock. Slash and debris may be buried in the roadway providing hauling can be supported and providing there is little probability or hazard of slope failure.
- F. If debris is to be chipped, the chips shall be spread over the surface of the ground in such a manner that their loose depth does not exceed NA inches. Chips may be mixed with soil within roadway.
- G. Slash and debris may be scattered in those situations where the volume of slash or residual slash is relatively light and the adjacent stands of timber are sufficiently open to accommodate the scattering without damage.
- H. When slash is to be windrowed, the windrow area shall be cleared. Windrows shall be placed parallel to and along the embankment toe. Windrows shall not be placed against trees.
- I. If material is decked, logs not meeting Utilization Standards that are NA inches or more in diameter shall be bucked into lengths not to exceed NA feet and piled at agreed locations

Sale Name: High Buck

C6.815 - THIRD PARTY SCALING SERVICES (04/2004)

Notwithstanding the requirement for Forest Service or parties under contract to Forest Service to provide Scaling services under B6.81, Scaling designated in A10 shall be conducted by a third party Scaling organization approved by Forest Service. Scaling shall be done in accordance with A9 and Purchaser shall bear costs for Scaling service.

In the event third party Scaling service is suspended for causes such as strikes, termination of third party's approval to Scale National Forest logs by Forest Service, or Purchaser's failure to pay third party Scaling costs, hauling operations shall be suspended until agreed alternate Scaling services are provided or service by third party is resumed.

When an approved alternate Scaling location pursuant to B6.811 does not have an approved third party scaling organization as a commonly used Scaling services provider, Forest Service or parties under contract to Forest Service shall provide Scaling services at the approved alternate location. In such an event, the cost of waived third party Scaling listed in A10 shall be charged to Timber Sale Account.

If Forest Service and Purchaser agree in writing that another party under contract to Forest Service will perform Scaling, the contract will be modified to include C6.816 and Timber Sale Account will be charged for such Scaling.

C6.824# - SCALING AS PRESENTED - SALES BY WEIGHT (04/2004)

Notwithstanding criteria in B6.82, all material presented for measurement will be weighed and paid for at rates listed in A4 on a predetermined weight factor of 56.94 pounds per cubic foot for all and N/A pounds per cubic foot for N/A.

In the event any live products are severed from the stump for a period of 90 days or more without being weighed, the Forest Service, at its discretion, may 100 percent sample, sample load scale, sample weight scale, or use any other valid and acceptable method to determine the volume. Purchaser shall bear any additional scaling costs as a result of the delay in removing the products.

Sale Name: High Buck

C6.83# - PRODUCT ACCOUNTABILITY (10/2003)

The following requirements are applicable to Product Removal Permits:

1. Forest Service will issue to Purchaser or designated representative(s) serially numbered Product Removal Permit books for use only on this sale. Product Removal Permit books, whether used or unused, shall be accountable property of Forest Service and shall be returned to issuing Ranger District in accordance with the instructions contained on the cover of each book. Each Product Removal Permit which is not returned will be considered a lost load and charged for as described in B6.85 B6.851, as appropriate.

2. Purchaser shall require all permits be filled out in ink, and otherwise completed, by an individual named in writing, showing the date loaded, sale brand, sale name, and destination where products will be unloaded. On the Load Permit, the month, day, and year the truck is loaded shall be punched out. Each permit will then be attached to the load in accordance with instructions on the inside cover of the Product Removal Permit book. Products will not be hauled from the Sale Area without the Load Permit attached to the load.

3. Before products are hauled, the truck driver must sign the Woods Permit in ink using legal signature.

4. Each load will have the last three digits of the load receipt number painted on both ends of three logs with red paint. All loads that consist of a truck and pup(s) must have the last three digits of the load receipt painted on both ends of three logs on all subunits of the combination.

C6.852 - WEIGHT OF LOST LOADS (11/1998)

If weight is the unit of measure, Purchaser shall present all loads for weighing and shall furnish a ticket from a certified scales for each such load. If no weight ticket is furnished for such load(s), the weight of such load(s) shall be deemed equal to the weight of the heaviest load presented during the billing period, as established by the Forest Service.

Sale Name: High Buck

C6.853 - LOADS ALTERED IN ROUTE (09/2002)

Loads of logs which are altered as a result of compliance with State Department of Transportation weight laws will be considered a non-verified load unless a Forest Service representative can verify the overweight load was totally delivered to the scaling site. If the load is verified by the Forest Service it may be processed through the normal sample selection process.

Unless otherwise agreed to, off-loaded logs will not be stored at the weigh station site. Off-loaded logs will be delivered immediately to the designated scaling site.

Logs will be off-loaded onto an empty truck and will have a log load removal receipt attached before proceeding from the weigh station. If logs are off-loaded onto another load of logs, both loads will be considered non-verified loads.

Since non-verified loads will be larger than the largest load in the sample in any given billing period, Purchaser agrees to pay an amount equivalent to and in addition to the amount payable at Current Contract Rates.

Purchaser is required to notify the Forest Service before off-loading of logs occurs to meet Department of Transportation weight laws.

Sale Name: High Buck

C7.2 - FIRE PRECAUTIONS (04/1979)

Specific fire precautions are as follows:

State Fire Laws. Where State laws provide specific requirements, these requirements must also be met.

Smoking and Lunch Fires. Purchaser shall prohibit smoking and the building of fires by persons engaged in Purchaser's Operations, except at established camps and shall enforce this prohibition by all means within Purchaser's power. Forest Service may, on written request of Purchaser, designate places where (1) campfires may be built for the purpose of heating lunches or (2) smoking may be permitted. Such designated places shall be cleared of flammable material to mineral soil prior to use.

Debris Around Structures. Purchaser shall clear and maintain an area free of flammable material for a distance not less than 15 feet from buildings, tents, and other structures connected with Purchaser's Operations.

Furnishing of Tools. Purchaser shall furnish sufficient fire tools of a kind and type satisfactory for fire suppression to equip persons engaged in Purchaser's Operations. Fire tools shall be used only for suppressing wildfires. Tools shall be stored in fireboxes provided by Purchaser and readily available to employees. Each toolbox shall be marked "Tools for Fire Only," painted red and kept sealed.

Fire Tools on Equipment. Each tractor, power skidder, power loader, and motor truck shall be equipped with one size 0, or larger, round-pointed shovel. Shovels shall be so placed on the machines that they can be readily obtained at all times.

Spark Arresters. Each gasoline or diesel internal combustion engine, except powersaws, shall be equipped with a spark-arresting device which has been approved by Forest Service. After installation, spark-arresting devices shall be kept in a satisfactory working condition.

Powersaws. Each gasoline powersaw shall have a spark arrester muffler affixed and in good working condition. Said spark arrester-muffler shall be of the construction and maintained to the standards approved by Forest Service. In addition, one chemical pressurized fire extinguisher of not less than 8-ounce capacity, by weight, and one size 0, or larger, round-pointed shovel shall also be provided.

The spark arrester-muffler, extinguisher, and shovel shall be maintained in good working condition at all times. The shovel and extinguisher shall be readily available.

Blasting. The use of fuses and detonating cord in blasting shall not be permitted.

During Fire Precautionary Period, blasting shall be permitted as follows:

A. When the predicted Condition Class reaches 3 (High), a watchman shall patrol the blasting area for at least 1 hour following blasting. The watchman shall have available for immediate use a standard fire shovel and a 5-gallon water filled backpack pump.

B. When the predicted Condition Class reaches 4 (Very High), blasting shall be restricted to cleared areas and terminated daily by 11 a.m. local time. The watchman requirements shall be as in item A above.

C. Blasting operations may be terminated when the predicted fire danger reaches extreme conditions.

Gasoline and Oil Storage. Gasoline, oil, grease, or other highly flammable material shall be stored in a separate building (or on site where all flammable debris has been cleared away within a radius of 25 feet).

Storage buildings (or sites) shall be a minimum distance of 50 feet from other structures. A suitable shovel, and dry sand in a covered container of not less than 25-gallon capacity (or a fire extinguisher of not less than 2-quart capacity of a type approved by the Underwriter Laboratory for gasoline and oil

Sale Name: High Buck

fires), shall be placed at each gasoline and oil shed, or other motor-fueling station. Mobile servicing units shall be equipped with a fire extinguisher of not less than 2-quart capacity of a type approved by the Underwriter Laboratory for gasoline and oil fires.

Camp Hazards. Stoves, stovepipes, chimneys, and electric wiring shall be located and maintained to the safety standards set forth in applicable sections of the Forest Service Health and Safety Code, dated March 1970, as revised.

Burning Plan. No slash burning shall be started by Purchaser without obtaining Forest Service approval of a written burning plan and also obtaining a burning permit from Forest Service.

C8.212 - MARKET-RELATED CONTRACT TERM ADDITION (11/2008)

The term of this contract may be adjusted when a drastic reduction in wood product prices has occurred in accordance with 36 CFR 223.52. The Producer Price Index used to determine when a drastic reduction in price has occurred is stated in A20. Purchaser will be notified whenever the Chief determines that a drastic reduction in wood product prices has occurred. If the drastic reduction criteria specified in 36 CFR 223.52 are met for 2 consecutive calendar quarters, after contract award date, Contracting Officer will add 1 year to the contract term, upon Purchaser's written request. For each additional consecutive quarter such a drastic reduction occurs, Contracting Officer will, upon written request, add an additional 3 months to the term during Normal Operating Season, except that no single 3-month addition shall extend the term of the contract by more than one year. Contracting Officer must receive Purchaser's written request for a market-related contract term addition before the expiration of this contract.

No more than 3 years shall be added to a contract's term by market-related contract term addition unless the following conditions are met:

(i) The sale was awarded after December 31, 2006; and

(ii) A drastic reduction in wood product prices occurred in at least ten of twelve consecutive quarters during the contract term, but not including the quarter in which the contract was awarded.

For each qualifying quarter meeting the criteria in paragraphs (i) and (ii) of this provision, the Forest Service will, upon the Purchaser's written request, add an additional 3 months during the normal operating season to the contract, except no single 3-month addition shall extend the term of a contract by more than 1 year.

In no event shall a revised contract term exceed 10 years as a result of market-related contract term addition.

Additional contract time may not be granted for those portions of the contract that have a required completion date or for those portions of the contract where Contracting Officer determines that the timber is in need of urgent removal or that timber deterioration or resource damage may result from delay.

Sale Name: High Buck

C8.64 - DEBARMENT AND SUSPENSION CERTIFICATION (03/2018)

Pursuant to 2 CFR 180 and 2 CFR 417, Purchaser shall certify and obtain certifications from its Subcontractors regarding debarment, suspension, ineligibility, and voluntary exclusion, including additional Subcontractors obtained after award of this contract. 'Subcontractors' are participants in lower tier covered transactions.

Purchaser may rely upon a certification of a prospective Subcontractor that it is not proposed for debarment under 48 CFR 9.4, debarred, suspended, ineligible, or voluntarily excluded from participating in covered transactions or timber sales, unless Purchaser knows that the certification is erroneous.

Purchaser shall keep the certifications of its Subcontractors on file until timber sale Termination Date and any extensions thereof, and will provide a copy at the written request of Contracting Officer. Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render in good faith the certification required by this Subsection. The knowledge and information of Purchaser is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

If Purchaser knowingly enters into a timber sale transaction with a person who is proposed for debarment under 48 CFR 9.4, suspended, debarred, ineligible, or voluntarily excluded from participation in covered transactions or timber sales, in addition to other remedies available to the Government, Forest Service may pursue available remedies, including suspension and/or debarment.

Contracting Officer shall provide a copy of Forms AD-1047, Certification Regarding Debarment, Suspension and Other Responsibility Matters-Primary Covered Transactions, and AD-1048, Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transactions to the Purchaser.

Purchaser shall complete form AD-1047 and provide to the Contracting Officer upon request.

Purchaser shall require each Subcontractor to complete form AD-1048 and provide to the Contracting Officer upon request.

Sale Name: High Buck

C8.66# (Option 1) - USE OF TIMBER (04/2004)

(a) This contract is subject to the Forest Resources Conservation and Shortage Relief Act of 1990, as amended (16 USC 620, et seq.).

(b) Except for none determined pursuant to public hearing to be surplus, unprocessed Included Timber shall not be exported from the United States nor used in direct or indirect substitution for unprocessed timber exported from private lands by Purchaser or any person as defined in the Act (16 USC 620e).

(c) Timber in the following form will be considered unprocessed:

(i) Trees or portions of trees or other roundwood not processed to standards and specifications suitable for end product use;

(ii) Lumber, construction timbers, or cants intended for remanufacturing not meeting standards defined in the Act (16 USC 620e); and

(iii) Aspen or other pulpwood bolts exceeding 100 inches in length.

(d) Unless otherwise agreed in writing, unprocessed Included Timber shall be delivered to a domestic processing facility and shall not be mixed with logs intended for export.

(e) Prior to award, during the life of this contract, and for a period of 3 years from Termination Date, Purchaser shall furnish to Forest Service, upon request, records showing the volume and geographic origin of unprocessed timber from private lands exported or sold for export by Purchaser or affiliates.

(f) Prior to delivering unprocessed Included Timber to another party, Purchaser shall require each buyer, exchangee, or recipient to execute an acceptable agreement that will:

(i) Identify the Federal origin of the timber;

(ii) Specify domestic processing for the timber involved;

(iii) Require the execution of such agreements between the parties to any subsequent transactions involving the timber;

(iv) Require that all hammer brands and/or yellow paint must remain on logs until they are either legally exported or domestically processed, whichever is applicable; and

(v) Otherwise comply with the requirements of the Act (16 USC 620d).

(g) No later than 10 days following the execution of any such agreement between Purchaser and another party, Purchaser shall furnish to Forest Service a copy of each such agreement. Purchaser shall retain, for 3 years from Termination Date, the records of all sales, exchanges, or dispositions of all Included Timber.

(h) Upon request, all records dealing with origin and disposition of Included Timber shall be made available to Contracting Officer.

(i) For breach of this Section, Forest Service may terminate this contract and take such other action as may be provided by statute or regulation, including the imposition of penalties. When terminated by Forest Service under this Section, Forest Service will not be liable for any Claim submitted by Purchaser relating to the termination.

SCHEDULE OF ITEMS

Project Name: High Buck Timber Sale
 Road Number: 643M
 Road Name: North Fork Ridge
 Reconstruction

Approved By: *P. Ryan Ray*
 Date: 08/10/18

Estimated Road
 Construction Cost: \$11,184
 Cash Contribution: _____
 Cash Supplementation: _____

Item No.	Description	Unit	Quantity	Est. Road Construction Cost	
				Unit Cost	Total
15101	Mobilization	Lump Sum	1	\$1,020	\$1,020
20402*	Roadway Excavation, Placement Method 3	Mile	0.39	\$2,700	\$1,053
20426	Grade Dip	Each	2	\$200	\$400
30111*	Haul and Place Stockpiled Aggregate (Government Furnished)	Cubic Yard	260	\$30	\$7,800
30122*	Haul and Place Pit Run Aggregate, 4" Maximum Size (Government Source)	Cubic yard	16	\$35	\$560
30322*	Roadway Reconditioning	Mile	0.39	\$900	\$351

Note: * next to an Item Number above indicates that the quantity shown is a Contract Quantity per FP-14 Specification 109.02

SCHEDULE OF ITEMS

Project Name: High Buck Timber Sale
 Road Number: 643Q
 Road Name: Spur 643Q
 Reconstruction

Approved By: P. [Signature]
 Date: 08/10/18

Estimated Road Construction Cost: \$37,855
 Cash Contribution: _____
 Cash Supplementation: _____

Item No.	Description	Unit	Quantity	Est. Road Construction Cost	
				Unit Cost	Total
15101	Mobilization	Lump Sum	1	\$3,400	\$3,400
20103*	Clearing and Grubbing, Disposal Method for Tops and Limbs f, Logs f, and Stumps f	Mile	6.55	\$1,200	\$7,860
20402*	Roadway Excavation, Placement Method 3	Mile	6.55	\$1,800	\$11,790
20426	Grade Dip	Each	4	\$200	\$800
30111*	Haul and Place Stockpiled Aggregate (Government Furnished)	Cubic Yard	130	\$30	\$3,900
30122*	Haul and Place Pit Run Aggregate, 4" Maximum Size (Government Source)	Cubic yard	8	\$35	\$280
30322*	Roadway Reconditioning	Mile	6.55	\$1,500	\$9,825

Note: * next to an Item Number above indicates that the quantity shown is a Contract Quantity per FP-14 Specification 109.02

SCHEDULE OF ITEMS

Project Name: High Buck Timber Sale
 Road Number: 643Q7
 Road Name: Spur 643Q7
 Reconstruction

Approved By: *R. Ben Bay*
 Date: *08/10/18*

Estimated Road
 Construction Cost: \$8,672
 Cash Contribution: _____
 Cash Supplementation: _____

Item No.	Description	Unit	Quantity	Est. Road Construction Cost	
				Unit Cost	Total
15101	Mobilization	Lump Sum	1	\$800	\$800
20103*	Clearing and Grubbing, Disposal Method for Tops and Limbs f, Logs f, and Stumps f	Mile	0.64	\$1,200	\$768
20402*	Roadway Excavation, Placement Method 3	Mile	0.64	\$2,700	\$1,728
30111*	Haul and Place Stockpiled Aggregate (Government Furnished)	Cubic Yard	160	\$30	\$4,800
30322*	Roadway Reconditioning	Mile	0.64	\$900	\$576

Note: * next to an Item Number above indicates that the quantity shown is a Contract Quantity per FP-14 Specification 109.02

SCHEDULE OF ITEMS

Project Name: High Buck Timber Sale
 Road Number: 643Q8
 Road Name: Spur 643Q8
 Reconstruction

Approved By: P. Ben Bay
 Date: 08/10/18

Estimated Road Construction Cost: \$5,385
 Cash Contribution: _____
 Cash Supplementation: _____

Item No.	Description	Unit	Quantity	Est. Road Construction Cost	
				Unit Cost	Total
15101	Mobilization	Lump Sum	1	\$500	\$500
20103*	Clearing and Grubbing, Disposal Method for Tops and Limbs f, Logs f, and Stumps f	Mile	0.71	\$1,200	\$852
20402*	Roadway Excavation, Placement Method 3	Mile	1	\$1,400	\$994
30111*	Haul and Place Stockpiled Aggregate (Government Furnished)	Cubic Yard	80	\$30	\$2,400
30322*	Roadway Reconditioning	Mile	1	\$900	\$639

Note: * next to an Item Number above indicates that the quantity shown is a Contract Quantity per FP-14 Specification 109.02

SCHEDULE OF ITEMS

Project Name: High Buck Timber Sale
 Road Number: 643S
 Road Name: Spur 643S
 Reconstruction

Approved By: P. J. [Signature]
 Date: 08/10/18

Estimated Road Construction Cost: \$127,834
 Cash Contribution: _____
 Cash Supplementation: _____

Item No.	Description	Unit	Quantity	Est. Road Construction Cost	
				Unit Cost	Total
15101	Mobilization	Lump Sum	1	\$9,500	\$9,500
15211	Construction Survey and Staking, Method II, Tolerance E	Mile	2.04	\$3,000	\$6,120
20104*	Clearing and Grubbing, Disposal Method for Tops and Limbs e, Logs e, and Stumps f	Acre	11.77	\$4,500	\$52,965
20401*	Roadway Excavation, Placement Method 3	Cubic Yard	7190	\$5	\$35,950
20750*	Geotextile for Underdrain, Type 2	Square Yard	290	\$6	\$1,595
60256A	18 Inch Corrugated Steel Pipe, 0.064 Inch Thickness, Compaction Method 6	Linear Foot	36	\$48	\$1,728
60256B	24 Inch Corrugated Steel Pipe, 0.064 Inch Thickness, Compaction Method 6	Linear Foot	94	\$56	\$5,264
60550	Underdrain, Excavation and Backfill	Lump Sum	1	\$2,250	\$2,250
60551*	Granular Backfill for Underdrain, 2" Washed Drain Rock	Cubic Yard	50	\$100	\$5,000
62556*	Seeding, Dry Method with Mulch	Acre	3	\$2,600	\$7,462

Note: * next to an Item Number above indicates that the quantity shown is a Contract Quantity per FP-14 Specification 109.02

SCHEDULE OF ITEMS

Project Name: High Buck Timber Sale
 Road Number: 643U
 Road Name: Spur 643U
 Reconstruction

Approved By: P. Ramsey
 Date: 08/10/18

Estimated Road
 Construction Cost: \$7,040
 Cash Contribution: _____
 Cash Supplementation: _____

Item No.	Description	Unit	Quantity	Est. Road Construction Cost	
				Unit Cost	Total
15101	Mobilization	Lump Sum	1	\$640	\$640
20103*	Clearing and Grubbing, Disposal Method for Tops and Limbs f, Logs f, and Stumps f	Mile	0.66	\$1,200	\$792
20402*	Roadway Excavation, Placement Method 3	Mile	0.66	\$1,400	\$924
20426	Grade Dip	Each	1	\$200	\$200
30122*	Haul and Place Pit Run Aggregate, 4" Maximum Size (Government Source)	Cubic yard	70	\$35	\$2,450
30322*	Roadway Reconditioning	Mile	0.66	\$900	\$594
60256A	18 Inch Corrugated Steel Pipe, 0.064 Inch Thickness, Compaction Method 6	Linear Foot	30	\$48	\$1,440

Note: * next to an Item Number above indicates that the quantity shown is a Contract Quantity per FP-14 Specification 109.02