

C2.11# – TIMBER SUBJECT TO AGREEMENT. (2/71) In addition, there is within Sale Area an unestimated quantity of sawtimber in units **5H, 6H, 11H, 30H, 32H** that shall be Included Timber upon written agreement.

C2.2# - UTILIZATION AND REMOVAL OF INCLUDED PRODUCTS (4/03) Unless otherwise agreed in writing, or as specified in C2.211# - Optional Removal of Non-sawtimber Products, Purchaser is required to pay for and remove the following products described in A2 of the contract:

Sawtimber is the boles of trees meeting Sawtimber Product specifications as listed in A2 of the contract.

Non-sawtimber is the boles of trees meeting Non-sawtimber Product specifications as listed in A2 of the contract, but that do not meet the minimum piece specifications for Sawtimber Products. Non-sawtimber removal is only required in Cutting Units **11A, 11B, 14A, 14B, 15A, 15B, 18, 32, 100, 107, 153A, 153B, & 200**. Only the volume of non-sawtimber in the cutting units listed above is included in the estimated volume shown in A2. If the purchaser and the Forest Service agree to remove non-sawtimber from cutting units other than those listed above this non-sawtimber must be measured and paid for at the rates shown in A4.

C2.301# - DESIGNATION OF RESERVE TREES (5/04) Notwithstanding the designations for cutting in other provisions of this contract, within Cutting Units 18 live superior reserve trees or groups of reserve trees within such cutting units or clearings shall be left uncut. Such reserve trees are identified by **Yellow “R”** and shall be protected in accordance with C6.320#.

Upon agreement, live or dead trees designated to be left standing may be felled when necessary for safety under the State Safety Code, and other live or dead trees may be designated in their place.

C2.302# - CLEARCUTTING, OR AND UR BOUNDARIES. (10/01) The boundaries of Clearcutting, Overstory-Removal, and Understory-Removal Units are marked with 3 vertical stripes of YELLOW paint with the center stripe facing towards the area to be treated with an accompanying YELLOW mark painted on the downhill side of the “stump” as close to the ground lines as practical. The trees used for boundary designation are not to be cut.

C2.303# - DEAD TREES. (10/04) Notwithstanding the designations for cutting in other provisions of this contract, ALL dead standing trees over 15 feet in height and 10 inches diameter at breast height and dead standing trees meeting Utilization Standards stated in A2 will be left standing in ALL Cutting Units.

Upon agreement by the Forest Service, dead trees may be felled when necessary for safety under the State Safety Code. Unless otherwise agreed in writing, all dead trees which are required to be left standing and are felled for safety reasons shall be left on site.

C2.358# - INDIVIDUAL TREES (LEAVE TREE MARKING). (10/04) In 18, 100, 153A, & 153B, all trees (live and dead) meeting minimum tree diameter specifications of A2 are designated for cutting except trees reserved from cutting. Trees reserved from cutting have been marked with a YELLOW painted horizontal line on both the up and downhill side of the tree with an accompanying YELLOW mark painted on the downhill side of the “stump” as close to the ground line as practical. The boundaries of areas where leave trees are marked are identified by 3 vertical stripes of YELLOW paint with the center stripe facing towards the area to be treated with an accompanying YELLOW mark painted on the downhill side of the “stump” as close to the ground line as practical. Trees used for boundary designation are not to be cut. All hardwood trees are not to be cut.

C2.38# - SPECIES DESIGNATION. (2/02) Within the following cutting units shown below, listed species are designated for cutting when they meet (a) utilization standards and (b) are smaller than the stump diameter listed below and shown on the Sale Area Map:

Unit	Designated Species	Maximum Stump Diameter (inches)
11A, 11B	WL	11
	DF	17
	C	15
	GF	23
	LP, S, H, AF	N/A
14A, 14B	WL	11
	DF	19
	C	15
	GF	26
	LP, S, H, AF	N/A
15A, 15B	WL	14
	DF	22
	C	15
	GF	31
	LP, S, H, AF	N/A
32	WL	11
	DF	17
	C	20
	GF	20

	LP, S, H, AF	N/A
107	WL	13
	DF	17
	C	17
	GF	23
	LP, S, H, AF	N/A
200	WL	13
	DF	21
	C	22
	GF	26
	LP, S, H, AF	N/A

Timber Subject to Agreement (C2.11#)

Unit	Designated Species	Maximum Stump Diameter (inches)
5H	WL	11
	DF	17
	C	17
	GF	17
	LP, S, H, AF	N/A
6H	WL	13
	DF	14
	C	20
	GF, LP, S, H, AF	N/A
11H	WL	11
	DF	17
	C	15
	GF	23
	LP, S, H, AF	N/A
30H	WL	11
	DF	17
	C	22
	GF	26
	LP, S, H, AF	N/A
32H	WL	11
	DF	17
	C	20
	GF	20
	LP, S, H, AF	N/A

Stump diameter will be measured at 4 inches above ground level on the uphill side of the tree. A minimum stump height of 4 inches above ground level on the uphill side shall be left in the units listed above.

In addition, any trees within the cutting unit boundary that are windthrown prior to Purchaser's logging in the immediate vicinity which meet Utilization Standards in amounts less than specified in B2.133 are designated for cutting.

Trees of the species listed above that are designated to be left standing are marked with a YELLOW painted horizontal line on both the up and downhill side of the tree with an accompanying YELLOW mark painted on the downhill side of the "stump" as close to the ground line as practical.

In addition to those species listed above, trees marked N/A are also designated for cutting.

The boundaries of units are marked with 3 vertical stripes of YELLOW paint with the center stripe facing towards the area to be treated with an accompanying YELLOW mark painted on the downhill side of the "stump" as close to the ground line as practical. Trees used for boundary designation are not to be cut.

Upon agreement with Forest Service, dead trees designated to be left standing may be felled when necessary for safety under the State Safety Code and other dead trees designated in their place.

C4.211 – DOWNPAYMENT. (6/07) 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 increases downpayment requirements (36CFR 223.49(e)), the downpayment shall be revised and applies in accordance with 36 CFR 223.49(f)

C5.12# – USE OF ROADS BY PURCHASER. (6/99) 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:

<u>Code</u>	<u>Use Limitations</u>
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 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:

**Restricted Road List**

Road Number	Road Name	Termini		Map Legend	Description of Restrictions
		From	To		
1904	Mica Creek	Sec. 16	Termini	R	Hauling Restricted

**C5.123# - ROAD USE, LIABILITY INSURANCE.** (3/90) Purchaser shall have in force public liability insurance covering: (a) property damage in the amount of \$500,000 and (b) damage to persons in the minimum amount of \$500,000 in the event of death or injury to more than one person. In the event of combined single limit insurance, the total minimum coverage shall be in the amount of \$1,000,000 providing for at least \$500,000 in the event of property damage and \$500,000 in the event of death or injury. The coverage shall extend to commercial hauling activities on roads listed in this provision. The Purchaser shall send an authenticated copy of its insurance policy or provide the enclosed CERTIFICATE OF INSURANCE in lieu of the actual policy to the Forest Service prior to hauling. The Purchaser's policy will not be cancelled or its provisions changed or deleted before 30 days' written notice to the Contracting Officer, Idaho Panhandle National Forest by the insurance company. Purchasers commercial hauling shall include hauling by Purchaser, Purchaser's employees, agents, contractors, subcontractors, their employees or agent on roads listed in this provision.

Failure to provide or maintain the liability insurance requirement will result in breach of contract under provision B9.3 Breach.

The following is a list of roads requiring liability insurance for commercial hauling:

Road Number	Road Name	Termini
All		

**CERTIFICATE OF INSURANCE**

\_\_\_\_\_ **Timber Sale Contract**  
\_\_\_\_\_ **(Contract Number)**

This is to certify to the [ 7/ ]  
FOREST SERVICE

that the INSUROR [ 8/ ]

has issued a policy of insurance on behalf of the PURCHASER  
[ 9/ ]

and that, subject to the provisions of said policy of insurance, said policy of insurance will continue in full force and effect for the period ending XXXXX;

and that said policy of insurance provides coverage which complies with the insurance requirements of the TIMBER SALE CONTRACT issued to the PURCHASER on XXXXX, said requirements included in special provision C5.123#- Road Use, Liability Insurance (3/90) of said TIMBER SALE CONTRACT.

I hereby accept full responsibility for the consequences of such errors or omissions of information as may be contained herein.

SIGNED  
(PURCHASER) (DATE)

SIGNED  
(Authorized Representative (DATE)  
of INSUROR)

**C5.13# – ROAD COMPLETION DATE.** (4/04) Construction of Specified Roads shall be completed no later than October 31, 2009; except for earlier construction completion dates for roads listed below: N/A

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

(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.

C5.210 – STAKING ERRORS BY PURCHASER. (10/04) A substantial change in the amount of construction work resulting from an error in staking, not resulting from an error in design, shall not be treated as a design change under B5.253 where construction staking is the responsibility of and performed by Purchaser under A7.

C5.31# – ROAD MAINTENANCE REQUIREMENTS. (7/01) Purchaser shall maintain roads in accordance with the following Contract Road Maintenance Requirements Summary:

**Contract Road Maintenance Requirements Summary**

Road	Termini		Miles	Applicable Prehaul Road Maintenance Specifications								
	From	To		T101	T108	T201	T301	T310	T506	T507	T508	
1451	St Hwy 3	1491	5.06	D	P	D	P	P	P		P	
1491	1451	226	8.77	D	P	D	P	P	P		P	
226	1491	1900	2	D	P	D	P	P	P		P	
1900	226	1904	2.8	D	P	D	P	P	P		P	
1900	1904	1900C	1.09	P	P	P	P	P	P		P	
1900B	1900	Unit 153 B	0.31	P	P	P	P	P		P	P	
1900C	1900	Unit 200	0.84	P	P	P	P	P		P	P	
1900F	1900	Unit 107	0.9	P	P	P	P	P		P	P	
1902	1900	Unit 100	1.65	P	P	P	P	P		P	P	
1902B	1902	termini	1.0	P	P	P	P	P		P	P	
1902C	1904	termini	0.2	P	P	P	P	P		P	P	
1904	1900	Unit 14	1.8	D	P	D	P	P	P		P	
1904C	1904	termini	0.7							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		T101	T103	T108	T201	T301	T310	T506	T507	T508
1451	St Hwy 3	1491	5.06	D	P	D	P	P	P	P		P
1491	1451	226	8.77	D	P	D	P	P	P	P		P
226	1491	1900	2	D	P	D	P	P	P	P		P
1900	226	1904	2.8	D	P	D	P	P	P	P		P
1900	1904	1900C	1.09	P	P	P	P	P	P	P		P
1900B	1900	Unit 153 B	0.31	P	P	P	P	P	P		P	P
1900C	1900	Unit 200	0.84	P	P	P	P	P	P		P	P
1900F	1900	Unit 107	0.9	P	P	P	P	P	P		P	P
1902	1900	Unit 100	1.65	P	P	P	P	P	P		P	P
1902B	1902	termini	1.0	P	P	P	P	P	P		P	P
1902C	1904	termini	0.2	P	P	P	P	P	P		P	P

1904	1900	Unit 14	1.8	D	P	D	P	P	P	P		P	
1904C	1904	termini	0.7	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		T101	T108	T201	T301	T310	T506	T507	T508		
1451	St Hwy 3	1491	5.06	D	P	D	P	P	P		P		
1491	1451	226	8.77	D	P	D	P	P	P		P		
226	1491	1900	2	D	P	D	P	P	P		P		
1900	226	1904	2.8	D	P	D	P	P	P		P		
1900	1904	1900C	1.09	P	P	P	P	P	P		P		
1900B	1900	Unit 153 B	0.31	P	P	P	P	P		P	P		
1900C	1900	Unit 200	0.84	P	P	P	P	P		P	P		
1900F	1900	Unit 107	0.9	P	P	P	P	P		P	P		
1902	1900	Unit 100	1.65	P	P	P	P	P		P	P		
1902B	1902	termini	1.0	P	P	P	P	P		P	P		
1902C	1904	termini	0.2	P	P	P	P	P		P	P		
1904	1900	Unit 14	1.8	D	P	D	P	P	P		P		
1904C	1904	termini	1.7	P	P	P	P	P		P	P		

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

### SPECIFICATION T-101 SURFACE BLADING

#### DESCRIPTION

1.1 Surface blading is keeping the native or aggregate surfaced road in a condition to facilitate traffic, minimize additional future maintenance, reduce erosion, and provide proper drainage. It includes maintaining the crown, inslope or outslope of the traveled way and shoulders, drainage dips, leadoff ditches, berms, turnouts, removal of minor slides and slumps, and other irregularities that prevent normal runoff from the road surface.

#### REQUIREMENTS

3.1 Surface blading shall be performed as often as necessary and to the standards required to facilitate traffic and proper drainage.

3.2 The blading shall be performed in such a manner as to preserve the existing cross section and to conserve surface materials. On gravel surfaced roads, the base must not be disturbed and no surface material may be bladed into the ditch or over the road shoulders. Blading of native surface roads shall be performed so no base material under four (4) inches in the greatest dimension is lost. All ruts, holes, etc., shall be removed by scarifying and/or cutting to the bottom of any surface irregularities. Oversize material brought to the surface in the scarification process shall be removed from the roadway. Surface material which has been displaced to the shoulders, turnouts, outside of curves, etc., shall be brought back so as to leave a uniform depth on the traveled way at completion of blading. Water shall be applied during blading if sufficient moisture is not present to prevent segregation.

3.3 Roadside cutslopes or berms shall not be undercut.

3.4 At intersections, the roadbeds of sideroads shall be graded for a reasonable distance to assure proper blending of the two riding surfaces.

3.5 Drainage dips and leadoff ditches shall be cleaned and continually maintained to conform reasonably to their original constructed lines, grade, and cross section.

3.6 Berms shall be repaired promptly by placing selected material as needed to restore the berm to its original condition.

3.7 Surface blading of native surface roads also includes ditch cleaning, which shall be done in accordance with T-301, Ditch Cleaning.

3.8 All blading operations shall be properly signed in accordance with B(T)6.33# and all applicable State Laws.

#### SPECIFICATION T-103 DUST ABATEMENT

##### DESCRIPTION

1.1 Dust abatement consists of road surface preparation and application of materials.

##### MATERIALS

2.1 Water, bituminous products, lignin sulfonates, chloride products, and other materials may be used for dust abatement. Materials other than water will require approval of the Forest Service and shall meet specifications furnished by the Forest Service.

##### REQUIREMENTS

3.1 Dust abatement materials shall be applied to the road surface as necessary to control surface loss and provide that vehicles are always intervisible within their stopping sight distance. The average user speed on the road shall be used to determine stopping sight distance. Preparation shall be in accordance with Specification T-101, Surface Blading.

3.2 The rate of application shall be such that the selected material will not run off the surface and cause pollution or unnecessary waste.

3.3 When water is the selected material, it shall be applied as often as necessary to abate dust from all Purchaser operations.

Dust abatement shall be maintained as needed throughout the duration of operations.

### SPECIFICATION T-108 SLIDE REMOVAL AND SLUMP REPAIR

#### DESCRIPTION

1.1 Slide removal and slump repair consists of all work necessary to restore the road to its original cross section as necessary to facilitate use and provide drainage. This work is such that it cannot be handled by a grader during surface blading and ditch cleaning operations.

Slump repair is the filling with selected material of depressions or washouts in roadway which cannot be routinely filled by a motor grader.

Slide removal and slump repair includes excavation, loading, hauling, placing, and compacting of replacement material and the removal and disposal of waste material. This includes the development of disposal or borrow areas at locations approved by the Forest Service.

#### REQUIREMENTS

3.1 Purchaser shall deposit slide material in an approved manner at designated locations.

Material shall not be disposed of on road fills unless otherwise agreed.

The slope which contributed the slide material shall be reshaped as practicable to reduce future sliding unless otherwise agreed.

3.2 When filling slumps and depressions, select material shall be used, placed in layers, and compacted to conform with or exceed the density of existing subgrade.

Existing aggregate surfacing shall be salvaged and relayed or replaced after slumps have been filled.

Damaged aggregate base, aggregate surfacing, and asphalt surfacing shall be repaired under Specification T-113, Surfacing Repair.

3.3 Following slide removal, roadway shall be shaped so as to reasonably conform to its original subgrade template.

3.4 Slump, waste, and borrow areas shall be seeded as required under T-508.

### SPECIFICATION T-201 SHOULDER MAINTENANCE

#### DESCRIPTION

1.1 Shoulder maintenance consists of keeping that portion of roadway adjacent to a paved and/or aggregate surface in a reasonably smooth condition and flush with the pavement and/or aggregate in order to provide lateral support to the surface. It may require blading, furnishing, and placing additional material, application of bituminous material, and any other work incidental to the maintenance of the shoulder.

## MATERIALS

2.1 Materials selected for shoulder maintenance shall be similar to the material used in the previous construction or maintenance.

## REQUIREMENTS

3.1 Shoulder Blading. Replace material as necessary. Blade and shape the entire width of the shoulder to drain the paved or aggregate surface. The shoulder material shall be moistened if necessary to ensure reasonable compaction and graded flush with the pavement or aggregate edge. The entire shoulder shall be fully compacted.

3.2 Asphalt Stabilized Shoulders. Where shoulder has been previously stabilized with bituminous treatment, reapplication of bituminous material shall be made when 50 percent of the shoulder surface material is no longer held in place by bitumen. Prior to treatment, it may be necessary to replace earth or aggregate material lost or moved since last application.

## SPECIFICATION T-301 DITCH CLEANING

### DESCRIPTION

1.1 Ditch cleaning is removing and disposing of all slough material from roadside ditches to provide an unobstructed waterway conforming reasonably to previous line, grade, and cross section.

### REQUIREMENTS

#### 3.1 Slough Material.

A. Native Surfaced Roads. Slough material from ditch cleaning, if suitable, may be placed and blended into the existing road surface or shoulders or placed in a designed berm during surface blading.

B. Aggregate Surface Roads. Slough material from ditch cleaning shall not be mixed with aggregate surfacing or left on the road surface unless otherwise agreed. Material shall be disposed of in an agreed manner at designated locations.

C. Asphalt Surfaced Roads. Equipment, methods, and timing shall be agreed to before start of ditch cleaning operations so as to protect the asphalt pavement. Material shall be disposed of in an agreed manner at designated locations.

## SPECIFICATION T-310 MINOR DRAINAGE STRUCTURES

### DESCRIPTION

1.1 Minor drainage structures are single passages with maximum waterway opening equivalent to a 78-inch round pipe (87- by 63-inch arch) or multiple passages with maximum, single waterway opening equivalent to a 60-inch round pipe (66- by 51-inch arch). They include overside drains. Maintenance is work performed on inlets, outlets, related channels, existing riprap, trash racks, and drop inlets.

### MATERIALS

2.1 All materials used in the maintenance of minor drainage structures shall conform by type and specification to the material in the structure being maintained.

### REQUIREMENTS

3.1 All minor drainage structures are to be maintained in accordance with these specifications in the spring following any significant runoff and prior to the beginning of winter storms.

3.2 Clear inlet and outlet channels, inlet trash racks, and drop inlets of loose material that could cause plugging or prevent the free flow of water. Debris shall be disposed of in agreed manner at designated locations.

3.3 If outlet riprap was originally placed to dissipate water energy, it shall be maintained in good condition including the replacement of riprap if necessary.

4.1 Make whatever minor repairs are necessary to ensure 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-506 CLEARING ROADWAY VEGETATION

### DESCRIPTION

1.1 This work consists of cutting and disposing of all vegetative growth including trees from the road surface that reduces the operational capability of the road. Vegetation removal is

required if the growth of the vegetation during the contract period causes unacceptable reduction of sight distance and operation capability.

## REQUIREMENTS

3.1 Vegetative matter on the road surface 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. Downed timber meeting utilization standards shall be cut in appropriate lengths and decked along the roadside in locations where the traveled way or sight distance will not be impaired.

3.2 Low shrubs and brush which do not restrict sight distance, do not impede road maintenance, and reduce erosion need not be removed if the road surface can be adequately maintained without doing so. Vegetation and nonmerchantable timber removed shall be disposed of by scattering, chipping, hauling to designated disposal areas, or as otherwise agreed upon.

## SPECIFICATION T-507 CUTTING ROADSIDE VEGETATION

### DESCRIPTION

1.1 This work consists of cutting and disposing of all vegetative growth, including trees from within the roadway that reduce sight distance and operational capability of the road. Vegetation removal is required if the growth of the vegetation during the contract period causes unacceptable reduction of sight distance and operation capability.

## REQUIREMENTS

3.1 Vegetative matter within the roadway 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. Downed timber meeting utilization standards shall be cut in appropriate lengths and decked along the roadside in locations where the traveled way or sight distance will not be impaired.

3.2 Low shrubs and brush which do not restrict sight distance, do not impede road maintenance, and reduce erosion shall not be removed. Vegetation removed shall be disposed of by scattering, chipping, hauling to designated disposal areas, or as otherwise agreed upon.

## SPECIFICATION T-508 SEEDING

### DESCRIPTION

1.1 Seeding is the application of seed and fertilizer to areas where vegetation has been disturbed as a result of slides, slumps, disposal of materials, and other Purchaser operations in connection with road maintenance.

REQUIREMENTS

3.1 Purchaser shall provide and apply the required kinds and amounts of seed and fertilizer in accordance with the requirements in C(T)6.601#.

3.2 Surfaces of areas to be treated shall be in a loose and roughened condition favorable to the retention and germination of seed.

C5.315# - ROAD MAINTENANCE ON JOINT OWNERSHIP ROADS. (10/04) Use of road(s) listed below for removal of Included Timber is dependent upon Purchaser meeting commensurate share of road maintenance requirements. Prior to June 1, annually, Forest Service shall notify Purchaser in writing if (a) Purchaser is to perform commensurate share of road maintenance as provided in Special Provision C5.31# or (b) make deposits in lieu of performed maintenance at a rate per unit of measure (by product if applicable) per mile to be established each year or (c) combination thereof. If deposits are required, rates of deposit will be included in the notification.

Road Number	Road Name	Termini	Miles
1451	Staples	Jct. 1491	5.06
1491	W. Fork Marry's Creek	Jct. 226	8.77
226	Blackwell Hump Divide	Jct. 1900	2.00
1900	Norton Creek	Jct. 1904	2.8
1904	Norton Mica Connection	End of Unit 14A	1.8

C5.316# - SNOW REMOVAL. (02/02) 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 4 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 4 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.

C5.32# – ROAD MAINTENANCE DEPOSIT SCHEDULE. (7/01) 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 and for deferred maintenance is: **\$2.12 per Ton.**

Purchaser shall make deposits for road maintenance directly to N/A for roads subject to the terms of a Road Maintenance Agreement that is available for inspection at the Forest Supervisor's office. Such deposits shall be at the rate of \$N/A per N/A.

C5.41# - CLOSURE TO USE BY OTHERS. (3/07)

**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 closure devices listed below and close them on roads designated "To Be Closed" on Sale Area Map and listed below to effectively block access to vehicle traffic except that constituting official use. Installation of closure devices 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 shall close road as directed by Forest Service at the completion of daily activities or maintain closure after passage of each vehicle. Forest Service will monitor and administer closure activities.

CLOSURE DEVICES					
Road Number	Location	Furnished By	Closure Method	Closure Device Installed By	In Place
1904C	Jct 1904 and Jct 1904C	Purchaser	Gate	Purchaser	
1900	Jct 1904 and Jct 1900	Purchaser	Gate	Purchaser	

During the life of this contract, Purchaser shall install temporary barricades at locations designated "Temporary activity Barricade" on Sale Area Map and shown below. 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. Installation of Temporary Activity Barricades shall follow closure details attached hereto and made a part hereof.

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.

**TEMPORARY ACTIVITY BARRICADES**

Road Number	Location	Closure Method
N/A		

**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. Existing locking closure devices shall be closed and locked as directed by Forest Service. 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:

Closure Location(s)				
Road Number	Location	Closure Method	Furnished By	In Place
1900	Jct 1904 and Jct 1900	Gate	Purchaser	

C5.419# – SYSTEM ROAD STABILIZATION. (3/07)

Roads listed below, shown on the Sale Area Map and used by Purchaser shall be stabilized after they have served the Purchaser's purpose, in accordance with details in the attached road logs and typical specifications.

<b><u>ROAD LOG</u></b>			
Road	Mile Post	Description of Work	Typical Specification

Number			Number

**C5.419# – SYSTEM ROAD STABILIZATION. (3/07)**

Roads 1900, 1900B, 1900C, 1900F, 1902, 1902B, 1902C, 1904 & 1904C used by Purchaser shall be stabilized after they have served the Purchaser’s purpose in accordance with details in the attached typical specifications and road logs.

**ROAD CLOSURE METHODS, LOGS & DETAILS**

**CLOSURE METHOD: A – GATE**

**DESCRIPTION**

The road shall be checked to assure that all erosion and/or other specified maintenance items are in place as specified under the timber sale contract (i.e. surface blading, ditch cleaning, cleaning drainage structures, etc). The work shall consist of shaping traveled way and shoulders, construction of water bars, furnishing and installing gates, seeding and furnishing and installing sign panels, posts and hardware as described in the ROAD CLOSURE LOG and/or SHOWN ON THE DETAILS.

**PERFORMANCE**

The roadbed shall be shaped to drain and driveable water bars constructed to facilitate proper drainage. The roadbed shall be insloped where functioning ditched sections exist and outsloped in non-ditched sections. Construct driveable water bars at frequency and configuration as described in the ROAD CLOSURE LOG and/or SHOWN ON THE DETAILS. Install gates; provide signing for gates or road closure as described in the ROAD CLOSURE LOG and/or SHOWN ON THE DETAILS. Seed and fertilize any disturbed area as described in the ROAD CLOSURE LOG.

**CLOSURE METHOD: B - BARRIER**

**DESCRIPTION**

The road shall be checked to assure that all erosion and/or other specified maintenance items are in place as specified under the timber sale contract (i.e. surface blading, ditch cleaning, cleaning drainage structures, etc). The work shall consist of shaping traveled way and shoulders, roadbed

scarification, removal of culverts and temporary bridges, stream channel restoration with associated gradient control structures and sediment basins, wet area treatment, construction of water bars, fill removal and hauling materials to designated disposal areas, seeding, furnishing and installing sign panels, posts and hardware and furnishing and installing road closure barrier as described in the ROAD CLOSURE LOG and/or SHOWN ON THE DETAILS.

## **PERFORMANCE**

Work shall begin at the road end or designated start location and progress out towards the road closure described in the ROAD CLOSURE LOG. The roadbed shall be shaped to drain and water bars constructed to facilitate proper drainage. The roadbed shall be insloped where functioning ditched sections exist and outsloped in non-ditched sections. Construct water bars at frequency and configuration as described in the ROAD CLOSURE LOG and/or SHOWN ON THE DETAILS. Selected fills, designated culverts and temporary bridges shall be removed and disposed of as described in the ROAD CLOSURE LOG and/or SHOWN ON THE DETAILS. Stream channel restoration with associated gradient control structures and sediment basins shall be constructed as described in the ROAD CLOSURE LOG and/or SHOWN ON THE DETAILS. Wet areas shall be treated as described in the ROAD CLOSURE LOG and/or SHOWN ON THE DETAILS. The entire traveled way and shoulders shall be scarified to the depth as described in the ROAD CLOSURE LOG and/or SHOWN ON THE DETAILS. Seed and fertilize road surface and any disturbed areas. Furnish and install road closure barrier and road closure sign assembly as described in the ROAD CLOSURE LOG and/or SHOWN ON THE DETAILS.

## **CLOSURE METHOD: C – DECOMPACTION OF ROADBED**

## **DESCRIPTION**

The work shall consist of shaping traveled way and shoulders to drain, roadbed scarification or decompaction, removal of culverts and temporary bridges, stream channel restoration with associated gradient control structures and sediment basins, wet area treatment, construction of water bars, embankment removal and embanking or hauling materials to designated disposal areas, seeding, furnishing and installing sign panels, posts and hardware and install/construction of barrier or full road recontour closure as described in the ROAD CLOSURE LOG and/or SHOWN ON THE DETAILS.

## **PERFORMANCE**

Work shall begin at the road end or designated start location and progress out towards the road closure described in the ROAD CLOSURE LOG. The roadbed shall be shaped to drain and water bars constructed to facilitate proper drainage. The roadbed shall be insloped where functioning ditched sections exist and outsloped in non-ditched sections. Construct water bars at frequency and configuration as described in the ROAD CLOSURE LOG and/or SHOWN ON THE DETAILS. Selected fills, designated culverts and temporary bridges shall be removed and disposed of as described in the ROAD CLOSURE LOG and/or SHOWN ON THE DETAILS. Stream channel restoration with associated gradient control structures and sediment basins shall be constructed as described in the ROAD CLOSURE LOG and/or SHOWN ON THE DETAILS. Wet areas shall be treated as described in the ROAD CLOSURE LOG and/or SHOWN ON THE DETAILS. The entire traveled way and shoulders shall be scarified or decompacted to the depth

as described in the ROAD CLOSURE LOG and/or SHOWN ON THE DETAILS. Seed and fertilize road surface and any disturbed areas. A section of full road recountoured or an earthen barrier shall be constructed near the beginning of the road and install road closure sign assembly as described in the ROAD CLOSURE LOG and/or SHOWN ON THE DETAILS.

Mulch material shall be grass hay or straw, State certified free of noxious weeds or other objectionable material and shall be applied at a rate of 3000 pounds per acre to areas described in the ROAD CLOSURE LOG and/or SHOWN ON THE DETAILS. The Contractor shall furnish the Contracting Officer with a copy of the certification.

## **CLOSURE METHOD: D – PARTIAL RECONTOUR**

### **DESCRIPTION**

The work shall consist of partial roadway obliteration, roadbed decompaction by loosening the roadbed material, removal of culverts and bridges, stream channel restoration with associated gradient control structures and sediment basins, wet area treatment, embankment removal and embanking or hauling materials to designated disposal areas, seeding, and construction of an earthen barrier or full road recountour closure as described in the ROAD CLOSURE LOG and/or SHOWN ON THE DETAILS.

### **PERFORMANCE**

Work shall begin at the road end or designated start location and progress out towards the road closure described in the ROAD CLOSURE LOG. All embankments segments shall be pulled up and placed onto the roadbed or hauled to designated disposal areas and all culverts and bridges shall be removed and disposed of as described in the ROAD CLOSURE LOG and/or SHOWN ON THE DETAILS. All excavated material shall be kept within the original roadway limits. Construction slash and/or concentrations of woody debris shall be treated as described in the ROAD CLOSURE LOG and/or SHOWN ON THE DETAILS. Stream channel restoration with associated gradient control structures and sediment basins shall be constructed as described in the ROAD CLOSURE LOG and/or SHOWN ON THE DETAILS. Wet areas shall be treated as described in the ROAD CLOSURE LOG and/or SHOWN ON THE DETAILS. The entire traveled way and shoulders shall be decompacted to the depth as described in the ROAD CLOSURE LOG and/or SHOWN ON THE DETAILS. Seed and fertilize road surface and any disturbed areas. A section of full road recountoured or an earthen barrier shall be constructed near the beginning of the road as described in the ROAD CLOSURE LOG and/or SHOWN ON THE DETAILS.

Mulch material shall be grass hay or straw, State certified free of noxious weeds or other objectionable material and shall be applied at a rate of 3000 pounds per acre to areas described in the ROAD CLOSURE LOG and/or SHOWN ON THE DETAILS. The Contractor shall furnish the Contracting Officer with a copy of the certification.

## Road Closure Log

### Rd. 1900 Open

Location	Description
M.P. 0.00 to 2.80	Surface blade roadbed, shape to drain, clean ditches and drainage structures as needed over entire length so as to conform to Maintenance Detail to facilitate roadbed drainage in accordance with the Road Maintenance Specifications C5.31# including attached T-Specifications.

### Rd. 1900 Closure Method B

Location	Description
M.P. 2.80 to 3.89	Close Gate. Scarify the roadbed to 6" depth. Surface blade roadbed, shape to drain, clean ditches and drainage structures as needed entire length so as to conform to Maintenance Detail to facilitate roadbed drainage in accordance with the Road Maintenance Specifications C5.31# including attached T-Specifications. Construct driveable water bars in accordance with Water Bar Construction Detail. Seed and fertilize the traveled way full width.

### Rd. 1900B Closure Method D

Location	Description
M.P. 0.00 to M.P. 0.31	Partial Road Recontour entire length: Decompact the entire length of the roadbed to 24" depth to prepare area for receiving embankment material as shown on Detail prior to pulling up fills to conform to Partial Road Recontour. Seed and fertilize roadbed and all disturbed earth. Mulch all disturbed slopes that drain into the stream channels. The following are the known culverts; these and all others encountered shall be removed. Re-establish drainages so as to conform to Stream Channel Restoration and Spring/Wet Area. Drainage Details.

M.P.	Culvert	Comments
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0.29

18" CMP

No channel needed

**Rd. 1900C Closure Method C**

Location M.P. 0.00 to 0.10	Description Construct 500-foot full recontour in accordance with the Full Road Recontour Detail.
M.P. 0.10 to M.P. 0.84	Scarify roadbed including any drainage ditch to a 6” depth, the entire length. Remove existing culverts (unknown quantity, assumed 0 CMPs) and re-establish drainages so as to conform to Stream Channel Restoration and Spring/Wet Area Drainage Details. Construct non-driveable water bars in accordance with Water Bar Construction Detail. Seed and fertilize roadbed and all disturbed earth and mulch all disturbed slopes that drain into the stream channels.

**Rd. 1900F Closure Method C**

Location M.P. 0.00 to 0.10	Description Construct 500-foot full recontour in accordance with the Full Road Recontour Detail.
M.P. 0.10 to M.P. 0.90	Decompact roadbed including any drainage ditch, to a 24” depth, the entire length. Remove existing culverts (unknown quantity, assumed 2 CMPs) and re-establish drainages so as to conform to Stream Channel Restoration and Spring/Wet Area Drainage Details. Construct non-driveable water bars in accordance with Water Bar Construction Detail. Seed and fertilize roadbed and all disturbed earth and mulch all disturbed slopes that drain into the stream channels. The following are the known culverts; these and all others encountered shall be removed.

M.P.	Culvert	Comments
0.32	18” CMP	Channel
0.42	36” CMP	Channel

**Rd. 1902 Closure Method C**

Location M.P. 0.00 to 0.10	Description Construct 500-foot full recontour in accordance with the Full Road Recontour Detail.
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M.P. 0.10 to M.P. 1.65 Scarify roadbed including any drainage ditch to a 6" depth, the entire length. Remove existing culverts (unknown quantity, assumed 0 CMPs) and re-establish drainages so as to conform to Stream Channel Restoration and Spring/Wet Area Drainage Details. Construct non-driveable water bars in accordance with Water Bar Construction Detail. Seed and fertilize roadbed and all disturbed earth and mulch all disturbed slopes that drain into the stream channels.

M.P.	Culvert	Comments
0.11	18" CMP	Channel
0.58	18" CMP	No Channel Needed
0.79	18" CMP	No Channel Needed
1.16	18" CMP	Channel
1.27	18" CMP	Channel
1.34	18" CMP	No Channel Needed
1.45	18" CMP	No Channel Needed

**Rd. 1902B Closure Method D**

Location	Description
M.P. 0.00 to M.P. 1.00	Partial Road Recontour entire length: Decompact the entire length of the roadbed to 24" depth to prepare area for receiving embankment material as shown on Detail prior to pulling up fills to conform to Partial Road Recontour. Seed and fertilize roadbed and all disturbed earth. Mulch all disturbed slopes that drain into the stream channels. The following are the known culverts; these and all others encountered shall be removed. Re-establish drainages so as to conform to Stream Channel Restoration and Spring/Wet Area. Drainage Details.

M.P.	Culvert	Comments
0.73	18" CMP	No channel needed
0.86	18" CMP	No channel needed

### **Rd. 1902C Closure Method C**

Location	Description
M.P. 0.00 to M.P. 0.20	Decompact roadbed including any drainage ditch, to a 24" depth, the entire length. Remove existing culverts (unknown quantity, assumed 0 CMPs) and re-establish drainages so as to conform to Stream Channel Restoration and Spring/Wet Area Drainage Details. Construct non-driveable water bars in accordance with Water Bar Construction Detail. Seed and fertilize roadbed and all disturbed earth and mulch all disturbed slopes that drain into the stream channels. The following are the known culverts; these and all others encountered shall be removed.

### **Rd. 1904 Open Road**

Location	Description
M.P. 0.00 to M.P. 1.80	Surface blade roadbed, shape to drain, clean ditches and drainage structures, as needed, entire length so as to conform to Maintenance Detail, to facilitate roadbed drainage in accordance with the Road Maintenance Specifications C5.31# including attached T-Specifications.

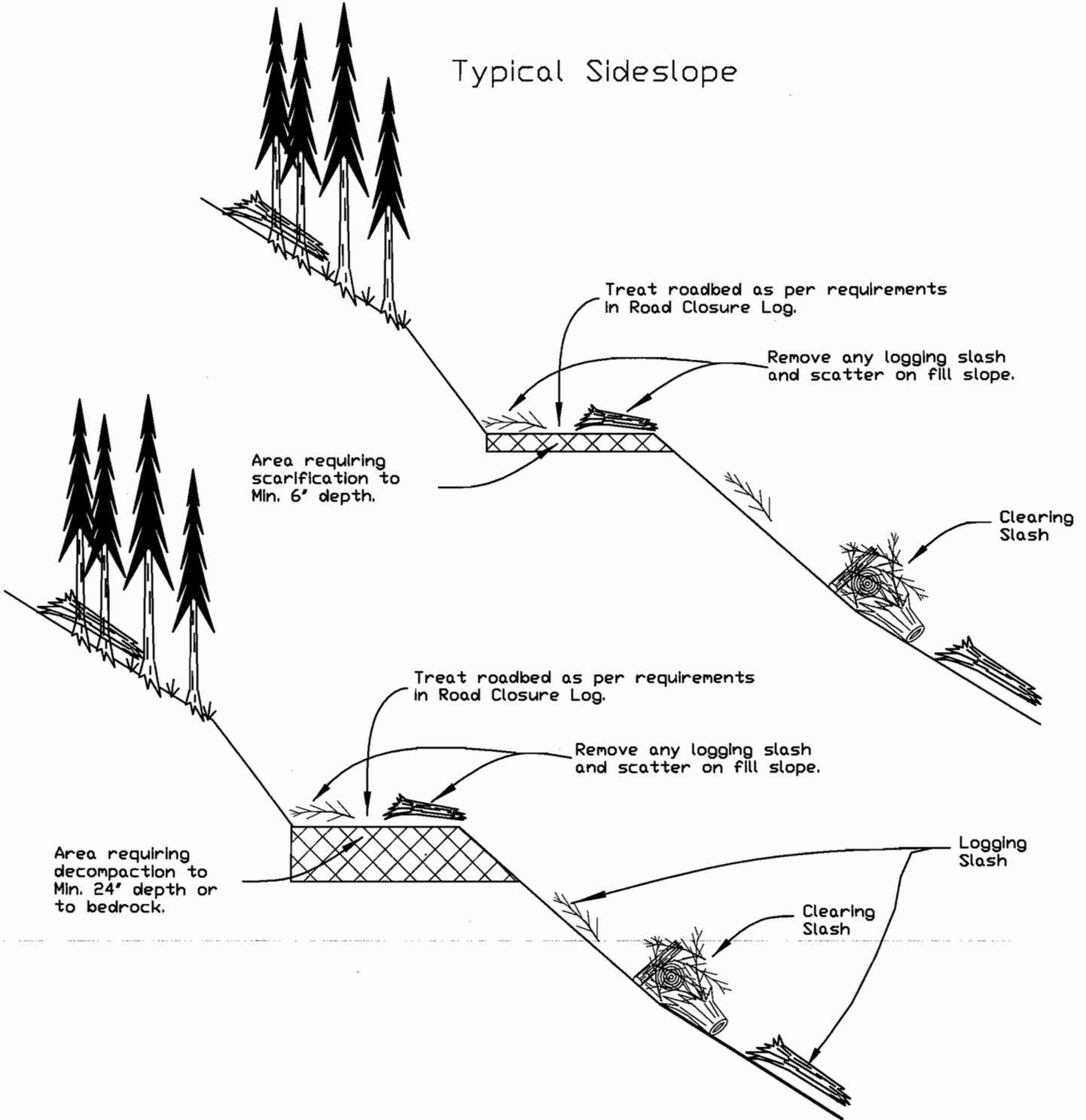
### **Rd. 1904C Closure Method C**

Location	Description
M.P. 0.00 to 0.10	Construct 500-foot full recontour in accordance with the Full Road Recontour Detail. Remove Gate and haul to Clarkia Work Center (approx. 15mi.)
M.P. 0.10 to M.P. 0.70	Decompact roadbed including any drainage ditch, to a 24" depth, the entire length. Remove existing culverts (unknown quantity, assumed 0 CMPs) and re-establish drainages so as to conform to Stream Channel Restoration and Spring/Wet Area Drainage Details. Construct non-driveable water bars in accordance with Water Bar Construction Detail. Seed and fertilize roadbed and all disturbed earth and mulch all disturbed slopes that drain into the stream channels. The following are the known culverts; these and all others encountered shall be removed.

# Long Term Storage Detail

Tole Booth Timber Sale  
System Road Stabilization, C5.419#

Typical Sideslope



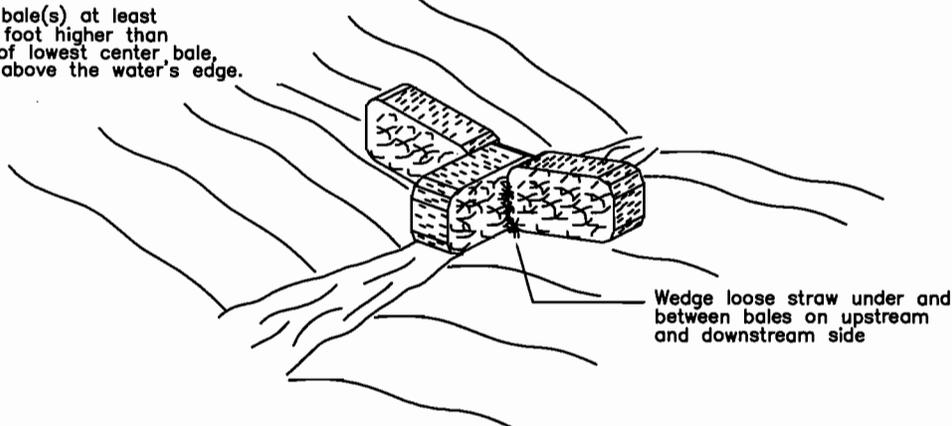
# Straw Bale Sediment Basins Detail

Tole Booth Timber Sale

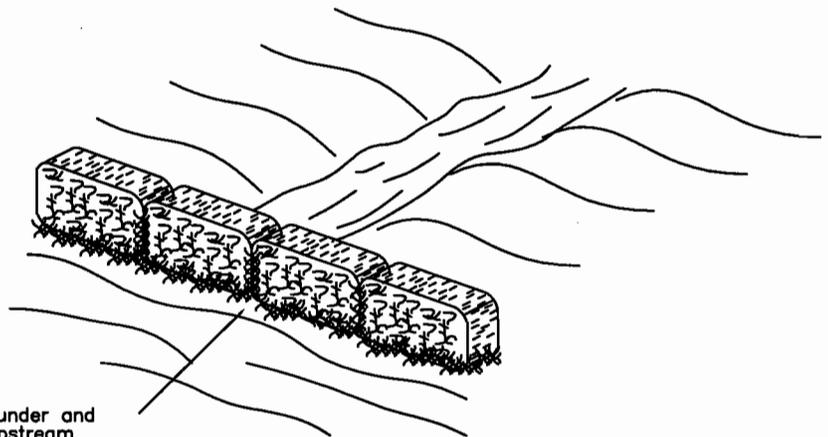
System Road Stabilization, C5.419#

End bale(s) at least  
1/2 foot higher than  
top of lowest center bale,  
and above the water's edge.

TYPE A  
(FOR NARROW V BOTTOM DRAWS)



TYPE B  
(FOR WIDE FLAT BOTTOM DRAWS)



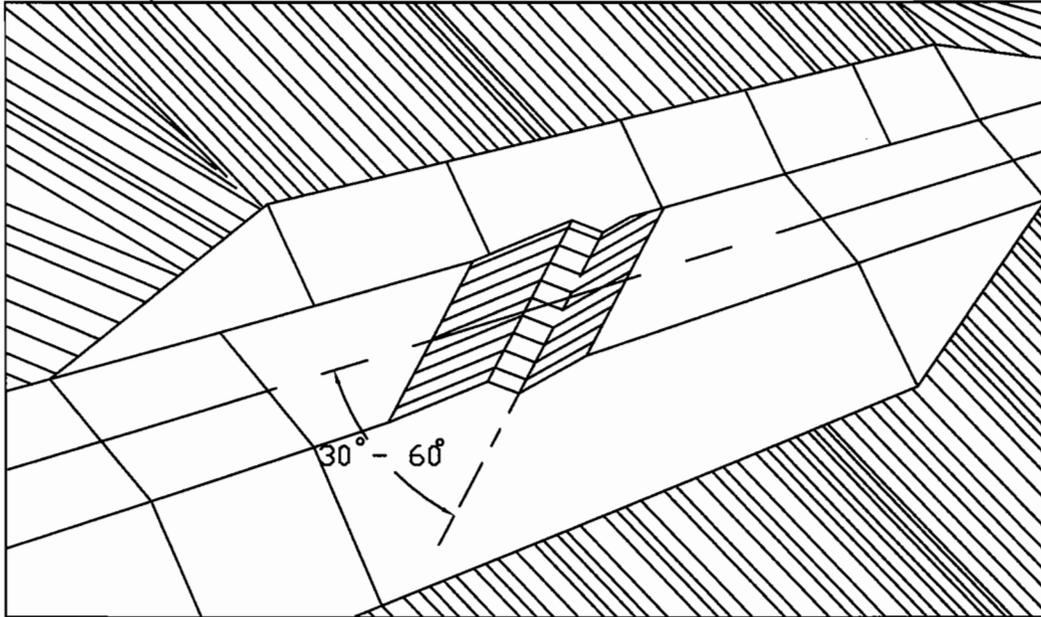
NOTE: The number of bales shown above are  
for typical installations. The actual  
number of bales required may vary.

## NOTES:

1. Grass hay or straw shall be of approved herbaceous mowings, certified free of noxious weeds or other objectionable material.
2. Straw bale sediment basins shall be constructed in live streams prior to culvert removal.
3. The barrier length shall extend across the stream so that of each end bale is at least one half foot higher than the top of the lowest center bale and above the water's edge.
4. Bales shall be staked or weighted in place using native materials. Loose straw or hay shall be wedged under and between the bales.
5. After culvert removal and stream bed restoration, trapped sediment shall be removed and scattered above high water mark. Then straw bales shall be broken up and scattered above high water mark.

# WATER BAR CONSTRUCTION DETAIL

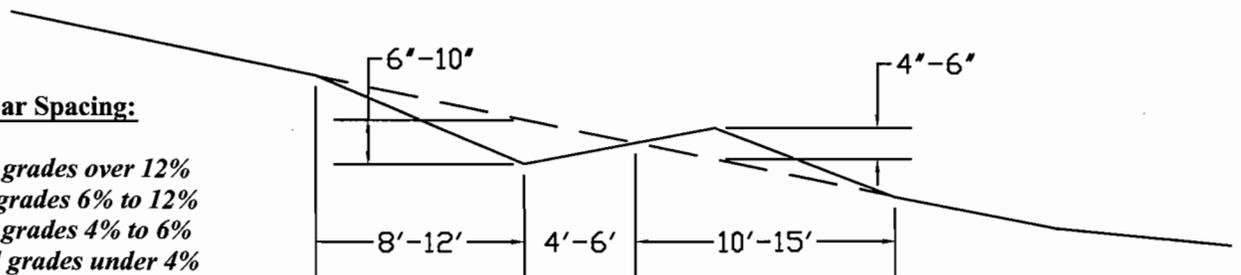
Tole Booth Timber Sale  
System Road Stabilization, C5.419#



PERSPECTIVE VIEW

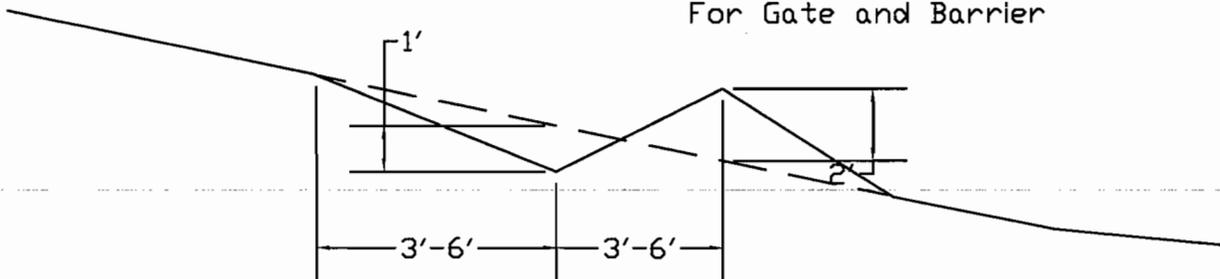
**Water bar Spacing:**

- 100' for road grades over 12%*
- 150' for road grades 6% to 12%*
- 300' for road grades 4% to 6%*
- 1000' for road grades under 4%*



Profile -- Driveable

For Gate and Barrier



Profile -- Non-driveable

For Storage & Partial Recontour

# Spring/Wet Area Drainage Detail

With or Without Ditch

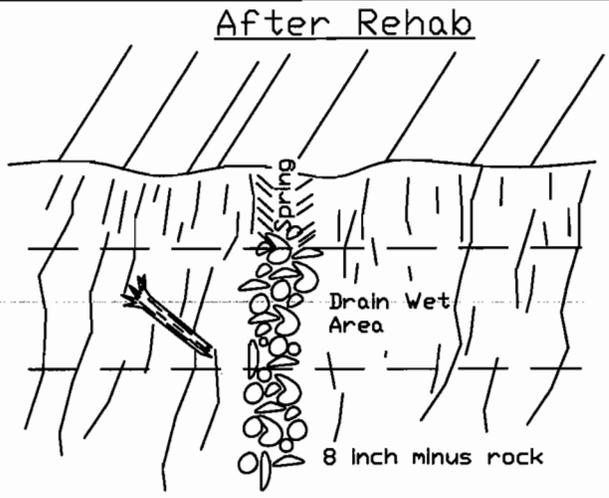
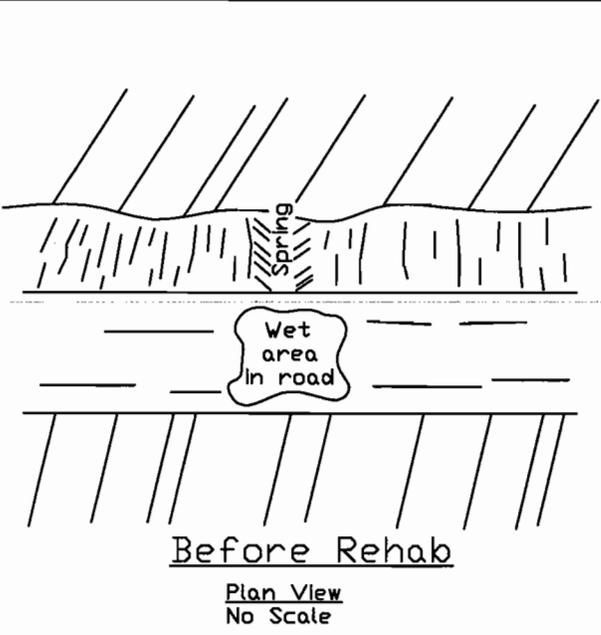
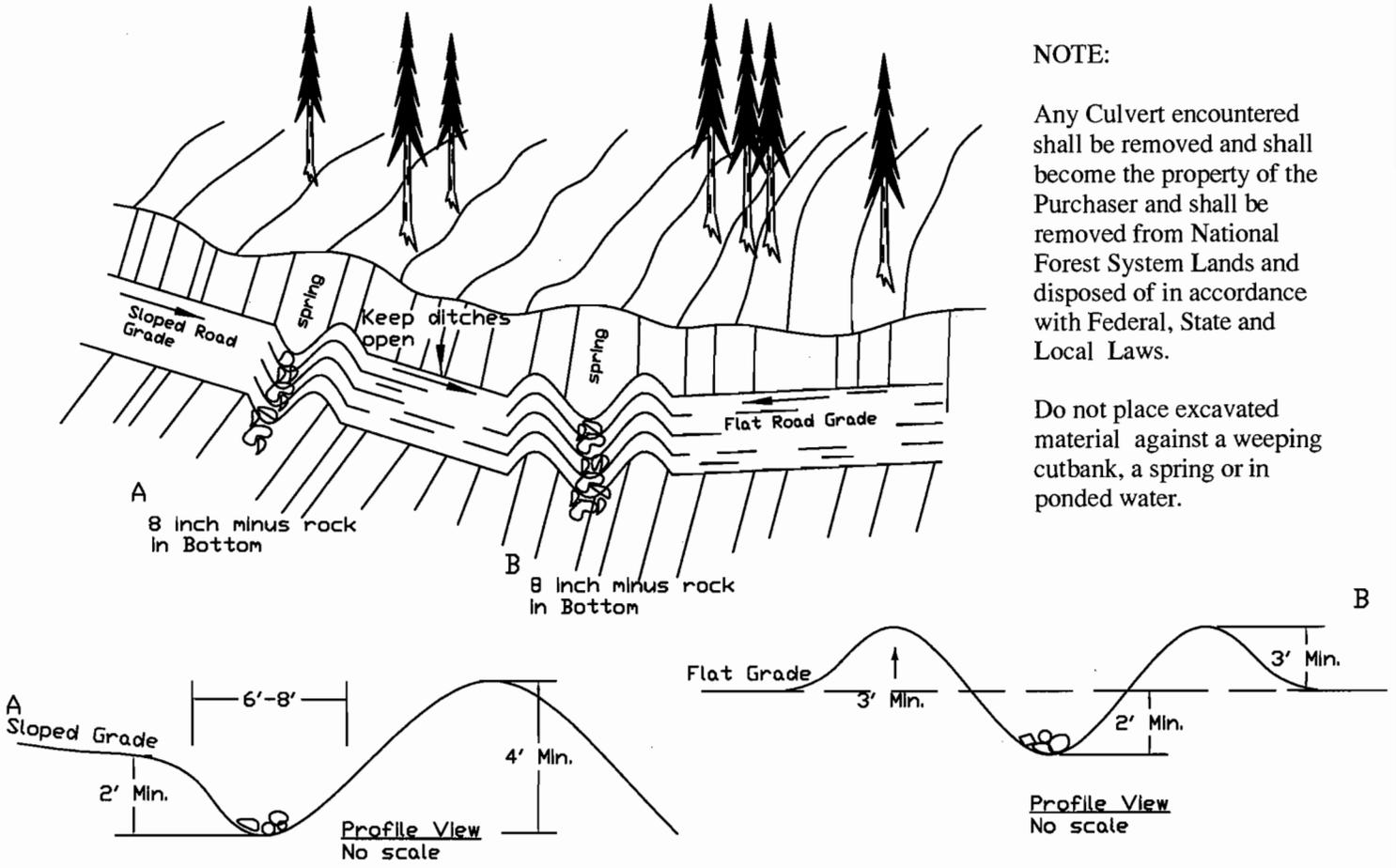
Tole Booth Timber Sale

System Road Stabilization, C5.419#

NOTE:

Any Culvert encountered shall be removed and shall become the property of the Purchaser and shall be removed from National Forest System Lands and disposed of in accordance with Federal, State and Local Laws.

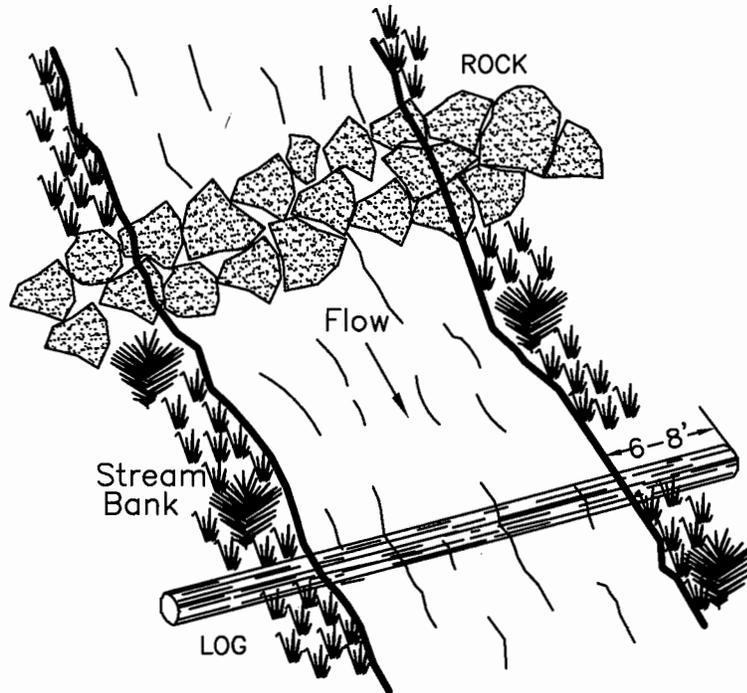
Do not place excavated material against a weeping cutbank, a spring or in ponded water.



# Gradient Control Structure Detail

## Tole Booth Timber Sale

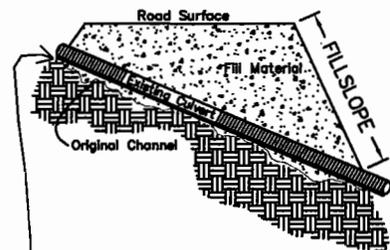
System Road Stabilization, C5.419#



### Notes:

- 1.) Log shall be minimum 16" small end diameter unless otherwise approved by the Contracting Officer.
- 2.) Rock may be substituted and used in the same manner as wood. Minimum rock size for small streams shall be 6"X5"X8", and minimum rock size for large streams shall be 9"X9"X14" unless otherwise approved by the Contracting Officer.
- 3.) Structure shall be installed perpendicular to stream flow and on a level plane.
- 4.) Structure (log or rock) shall be keyed in at a minimum of 4" below original stream grade and shall not extend more than 6" above median streamflow level and to a minimum of 6' into each stream bank.
- 5.) Ditch relief culverts should not require gradient control structures unless they are in a natural channel.
- 6.) Gradient control structures shall be constructed within the area of the removed embankment and the first structure shall be within 3 feet of the inlet of the removed culvert. Structures shall be placed at a maximum spacing of 15 feet apart covering the length of the removed embankment and there shall be at least two structures minimum or as directed by the Contracting Officer.

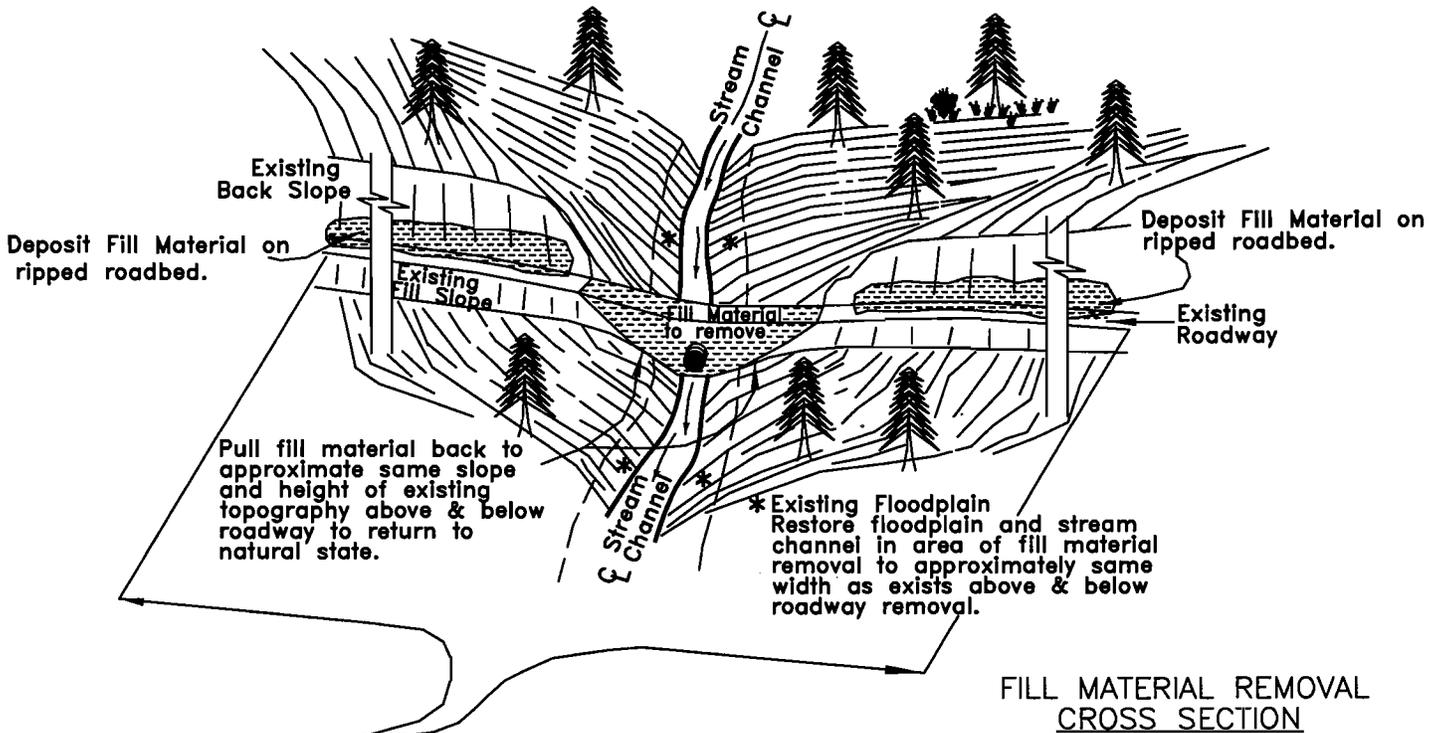
### CROSS SECTION



Location of first structure, then other structures at maximum spacing interval of 15 feet thereafter.

# Stream Channel Restoration Detail

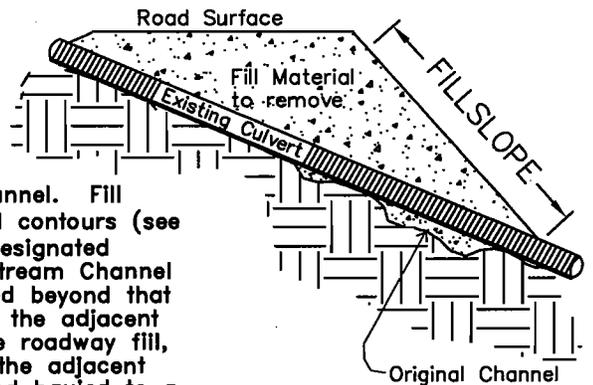
Tole Booth Timber Sale  
System Road Stabilization, C5.419#



FILL MATERIAL REMOVAL CROSS SECTION

Culvert Size	Stream Channel Restoration Area
12"-18" Cross-drains	100 Feet each side of channel center
18"+ Live streams	200 Feet each side of channel center

**NOTES:**



1. Remove all fill material from Floodplain down to the original channel. Fill material removed shall be placed and shaped to approximate natural contours (see Full Recontour Detail) on the decompacted roadbed or hauled to a designated disposal site as determined by the Contracting Officer. Within the Stream Channel Restoration area, no additional fill removal material shall be deposited beyond that which was originally there prior to road construction. Full recontour the adjacent roadway within the stream channel restoration area by pulling up the roadway fill, placing and shaping the fill onto the roadway, and contouring it to the adjacent original ground slopes. Any excess material encountered shall be end hauled to a designated disposal site and is incidental to the road closure.

2. Distances for Stream Channel Restoration may be adjusted to either side of channel to accommodate overlapping sections where streams are close together.

3. Available woody debris shall be scattered on finished slope with larger wood and rock placed within the Floodplain.

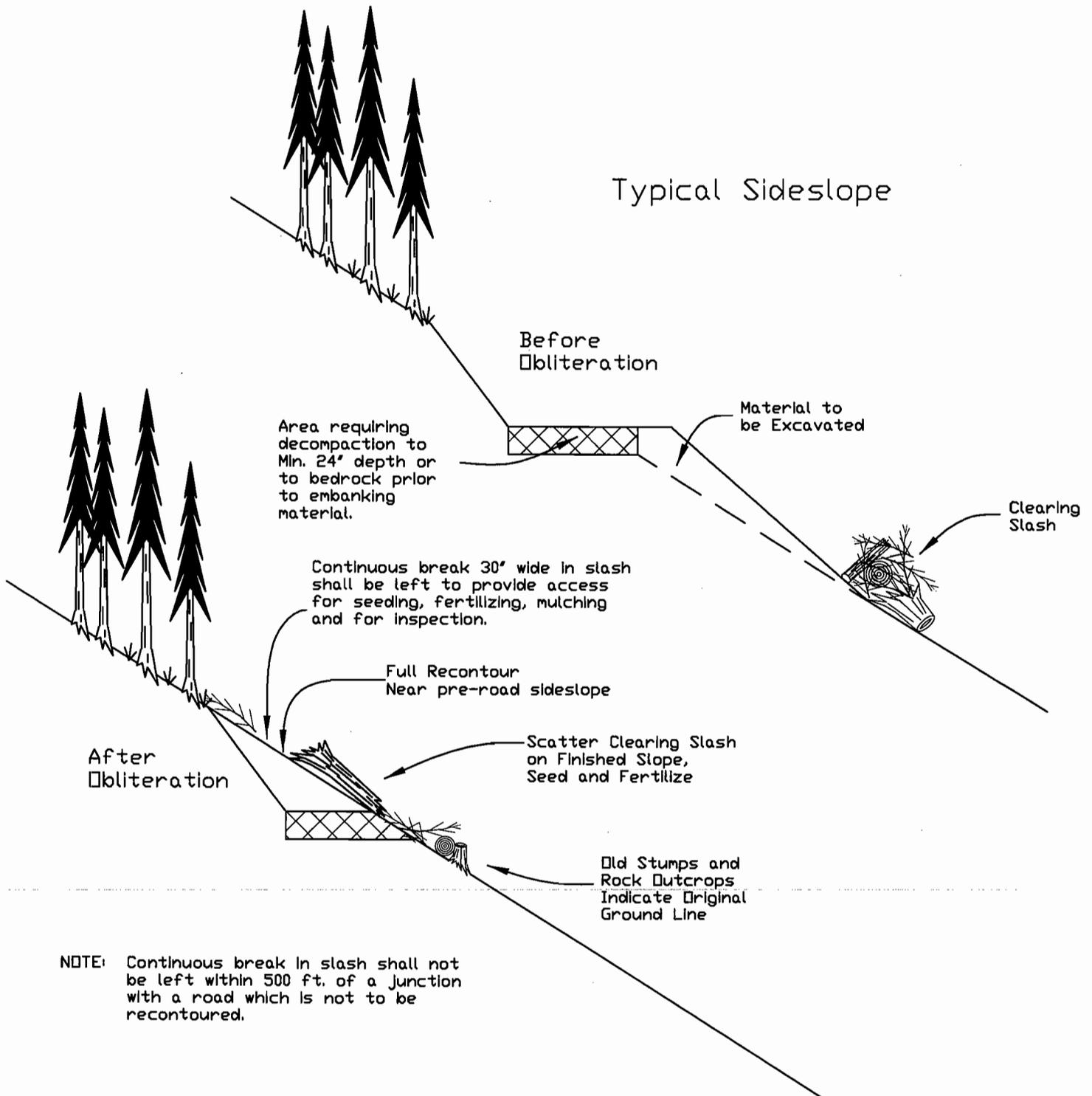
4. Gradient Control Structures shall be placed at 15 foot maximum intervals as shown on the Gradient Structure Control Detail or as directed by the Contracting Officer.

5. Culverts (metal, plastic or concrete) removed shall become the property of the Purchaser and shall be removed from National Forest System Lands and disposed of in accordance with Federal, State and Local Laws.

6. In stream channels with flowing water the Contractor shall install a Basin as shown on the Straw Bale Sediment Basin Detail prior to starting culvert removal. The Straw Bale Sediment Basin shall be maintained during culvert removal.

# Full Road Recontour Detail

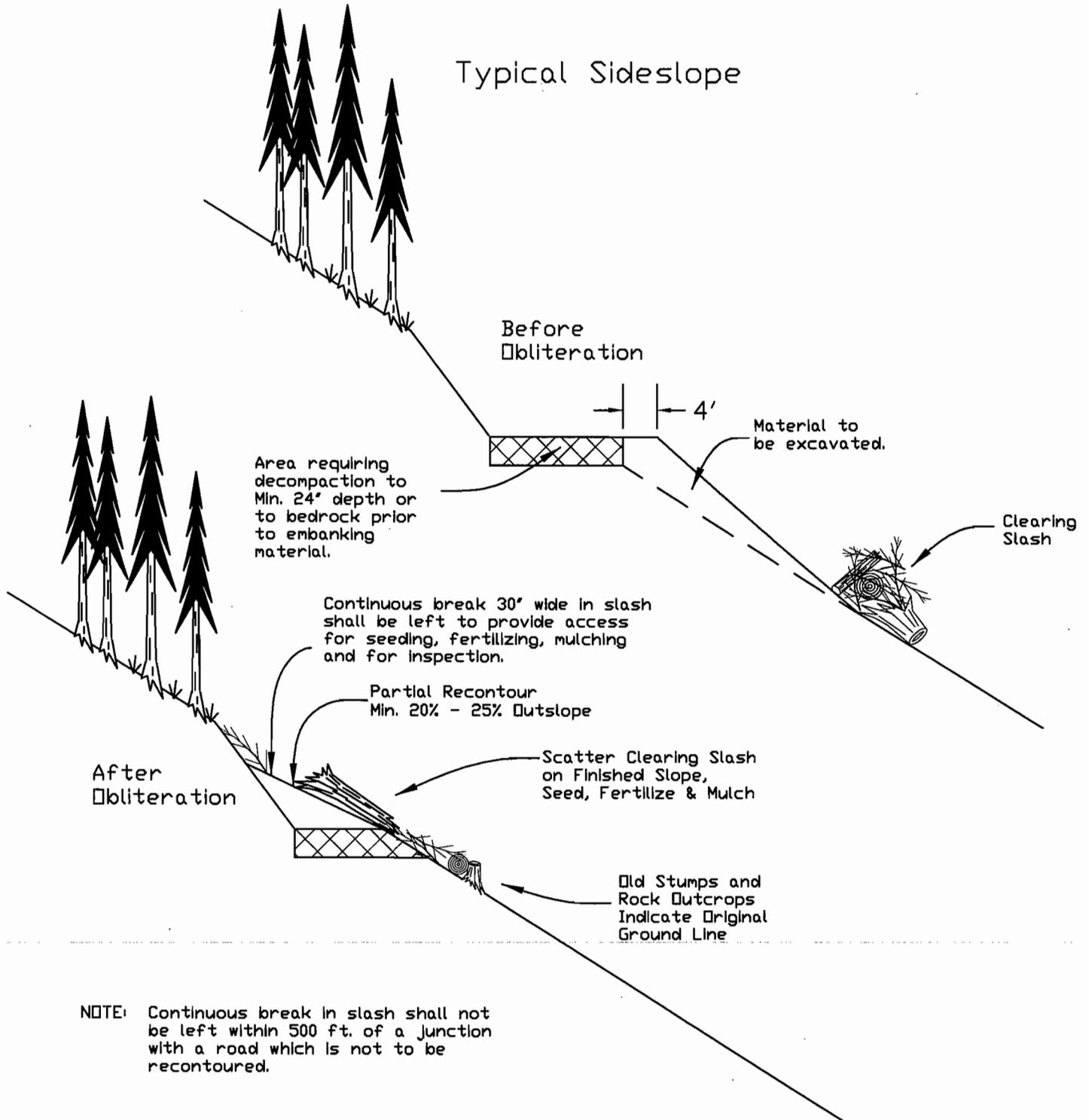
Tole Booth Timber Sale  
System Road Stabilization, C5.419#



# Partial Road Recontour Detail

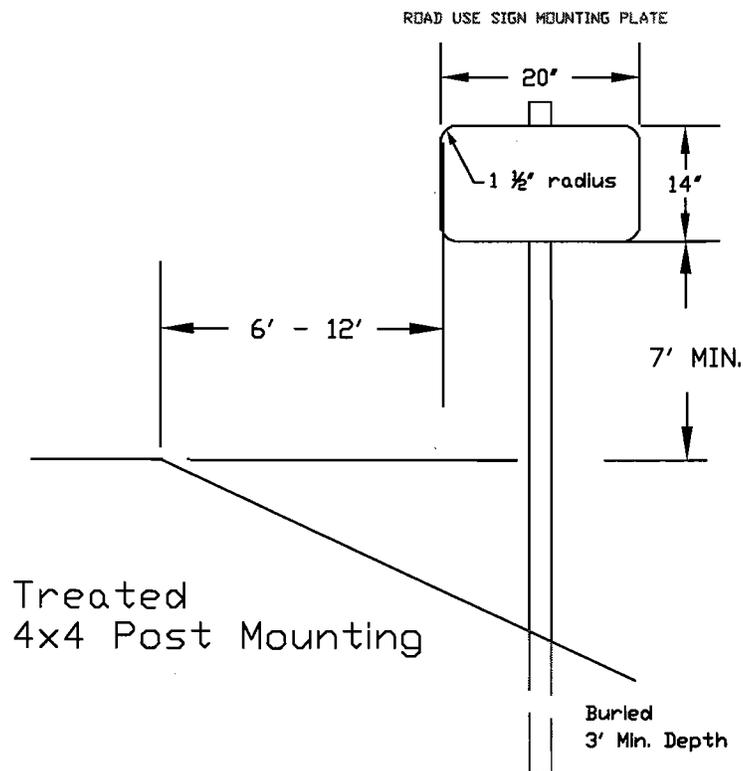
Tole Booth Timber Sale  
System Road Stabilization, C5.419#

Typical Sideslope



# Road Closure Sign Detail

Tole Booth Timber Sale  
System Road Stabilization, C5.419#



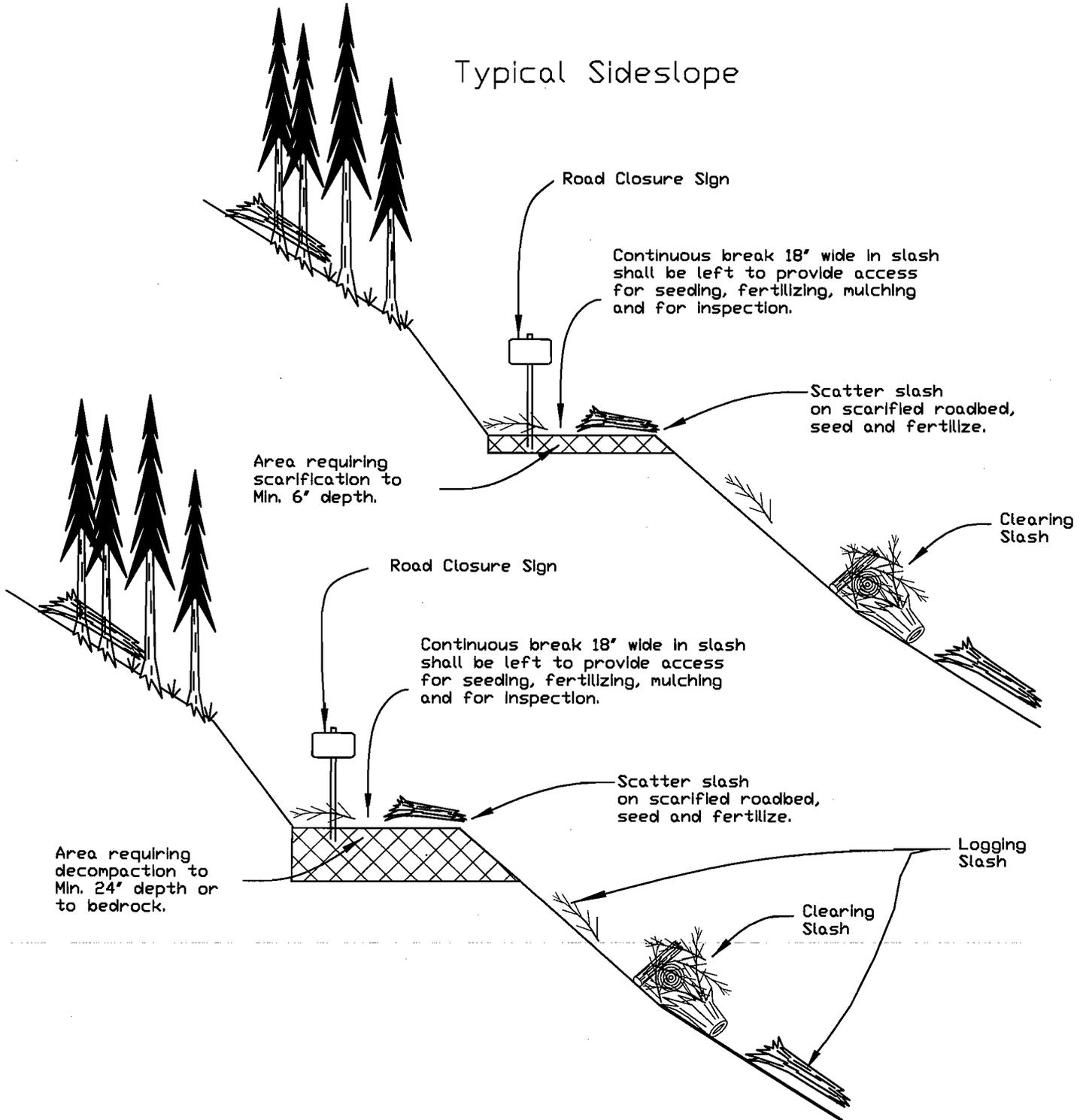
Typical Sign Installation (as per M.U.T.C.D.).

NOTE: After fabrication, Road Use Sign Mounting Plate  
Must be sanded to remove all rust, scale, and oily  
substance and painted with brown or red primer.

# Slash Barrier Detail

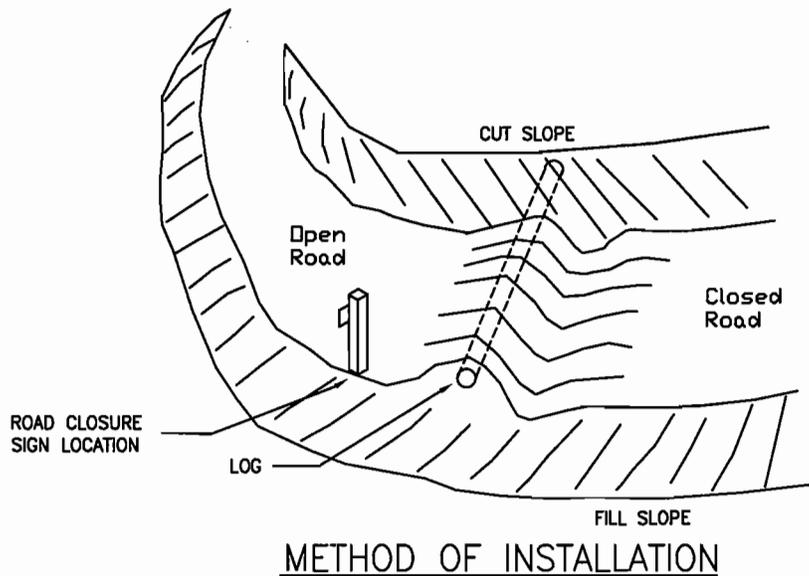
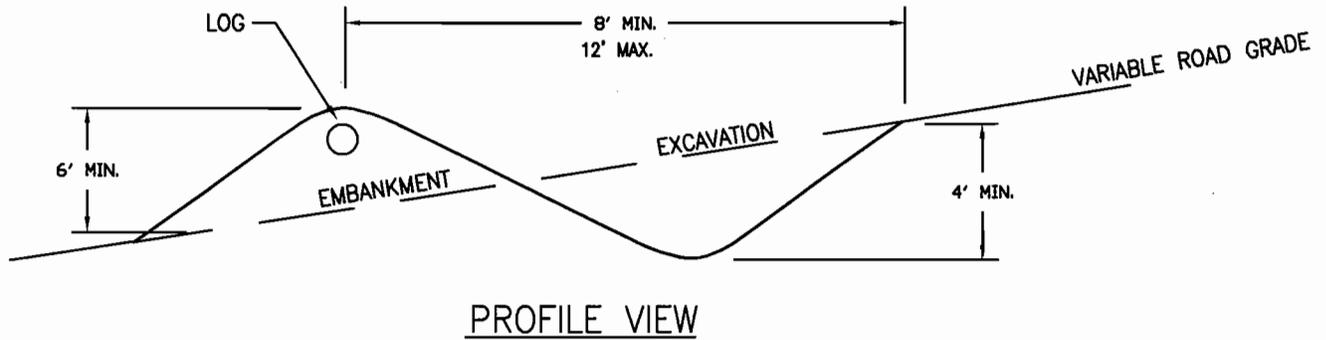
Tole Booth Timber Sale  
System Road Stabilization, C5.419#

## Typical Sideslope



# Earthen Barrier Detail

## Tole Booth Timber Sale System Road Stabilization, C5.419#



### CONSTRUCTION NOTES

- (1) Place 20" log in embankment and cover with at least 12" of embankment material. Log shall be keyed into cut bank 4'. Log may be deleted with written approval by the Contracting Officer.
- (2) The bottom of barricade shall be outsloped on a 7% grade unless otherwise directed.
- (3) Earthen Barriers shall be constructed at locations approved by Contracting Officer or shown on location chart.
- (4) Install Closure sign and post.
- (5) Drawings not to scale.

C6.10 - PREWORK CONFERENCE. (10/04) Annually, prior to commencement of work, a prework conference will be held to discuss contract terms and work performance requirements. Also at this meeting such things as responsibility under OSHA, and procedures for how undesigned timber that may have to be added to the contract (including danger trees) shall be discussed and documented.

The Purchaser, or designated representative, will arrange for the meeting with the Contracting Officer.

C6.23 - PROTECTION OF LAND SURVEY MONUMENTS. (10/04) Forest Service shall appropriately designate on the ground all known survey monuments including but not limited to horizontal control stations (Triangulation Stations), vertical control stations (Bench Marks), property corner monuments, and all Public Land Survey System monuments. This shall include reference monuments, corner accessories such as bearing trees, line trees and line posts. Identifying signs shall be posted by Forest Service on two sides of each known bearing tree and each line post shall be posted with a metal sign or decal. Line trees may be cut if designated under B2.3.

In authorized clearings such as Clearcutting Units and road construction clearings, and in other instances where damage to survey monuments, corners, corner accessories and survey of property line markers is unavoidable, Forest Service shall arrange protective or perpetuative action which does not cause unnecessary delay to Purchaser.

Purchaser shall protect all known survey monuments, witness corners, reference monuments, bearing trees and line markers against avoidable destruction, obliteration or damage during Purchaser's Operations. Additional monuments or objects discovered on the area shall be promptly reported to the other party and shall also be protected. If any known monuments, corners, corner accessories, and survey or property line markers are destroyed, obliterated or damaged during Purchaser's Operations, Purchaser shall employ a registered professional land surveyor to reestablish or restore at the same location the monuments, corners, corner accessories or line markers. Such surveyors shall use procedures and monumentation that accords with the Bureau of Land Management Manual of Instructions for the Survey of the Public Lands of the United States for General Land Office surveys and any applicable State statutes concerned with land surveys. Purchaser's agent shall record such surveys in accordance with state survey statutes.

C6.24# - SITE SPECIFIC SPECIAL PROTECTION MEASURES. (4/04) Special protection measures needed to protect known areas identified on Sale Area Map or on the ground include:

Cultural Resource Protection Measures:

Wildlife and Botanical Protection Measures: Directional falling into the unit required along Unit 200 boundary.

Cave Resource Protection Measures:

C6.316# - LIMITED OPERATING PERIOD. (5/05) Except when agreed otherwise in writing, Purchaser's operations shall be limited as follows:

In channel activity, culvert installation and removal, will occur during base flows, July 15<sup>th</sup> through September 1<sup>st</sup> for Fish Habitat Protection.

C6.320# –RESERVE TREE PROTECTION. (10/04) Purchaser shall protect reserve trees, described in C2.301#, from damage or destruction in Purchaser's Operations. In the event reserve trees are damaged or destroyed by Purchaser's Operations, such damage will cause serious and substantial silvicultural or other damage to the National Forest. It will be difficult if not impossible to determine the amount of such damage. Therefore, Purchaser shall pay as fixed, agreed and liquidated damages \$1,000 for each superior reserve tree and \$1,000 for each reserve tree damaged or destroyed in addition to amounts payable under B3.45 and B3.46.

Damage, as used herein, includes any injury to the living crown, bole, or roots of reserve trees. If areas are marked on the ground around such reserve trees, operation of heavy equipment or skidding of products within said area shall be considered to be damage to the tree.

**Attachment B6.33  
10/01**

**LOGGING AND MAINTENANCE OPERATIONS SIGNING STANDARDS**

All signs must be manufactured & installed as specified in the FHWA "Manual on Uniform Traffic Control Devices" (MUTCD) & FS publication "Standards for Forest Service Signs & Posters"( EM 7100-15).

**SIGN STANDARDS**

**SHAPE & COLOR:** Generally, signs for logging and maintenance operations are either diamond-shaped or rectangular. All signs are *reflective orange background with black legend and border* unless shown otherwise. Handpainted, homemade signs are not legal. Fluorescent paint is not reflectorized.

**SUBSTRATE:** Sign substrate material may be High Density Overlay (HDO) Plywood, Aluminum, Fiberglass Reinforced Plastic, Corrugated Plastic or Roll-up Fabrics.

**SIGN SIZE:** Sign size is a factor of speed and MUTCD & FS standards. Where conditions of speed, volume, or special hazard require greater visibility or emphasis, larger signs should be used. Minimum sizes for the most common signs can be found in Figure 4. Refer to the EM-7100-15 for additional sign sizes.

**LEGEND:** All lettering shall be Series "C" alphabet, conforming to Standard Alphabets for Highway Signs. Letter size is also a function of speed - use letter size and word messages as specified in MUTCD and EM-7100-15.

**SIGN PLACEMENT**

Signs are to be installed in locations as agreed to in the traffic control plan. All signs are to be removed, covered, or folded when operations are not in progress or the sign message is not applicable. Signs should generally be located on the right-hand side of the roadway. When special emphasis is needed, signs may be placed on both the left and right sides of the road. Sign message shall be clearly visible to road users, mounted on posts or portable sign stands.

**LATERAL CLEARANCE**

From the edge of the road - 2 foot minimum, where slope limits to less than 6 feet. 6-12 foot preferred.

**HEIGHT**

Minimum of 7 feet, measured from the bottom of the sign to the near edge of the travelway. The height to the bottom of a supplemental sign mounted below the primary sign will be 6 feet.

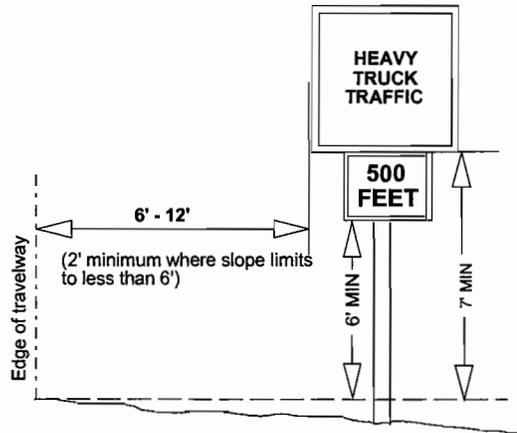


Figure 1: Sign Placement

Dimensions

**PLACEMENT DISTANCE**

Signs must be located 100-500 feet prior to the activity, (both ends if a through road) and maintained at that distance. This distance is based on speed. Refer to Figure 2 , Table II-1, MUTCD, a portion of which is reproduced here, to determine correct placement distance.

Posted or 85 percentile speed MPH	Deceleration to listed advisory speed MPH				
	10	20	30	40	50
20	NA				
25	100				
30	150	100			
35	200	175			
40	275	250	175		
45	350	300	250		
50	425	400	325	225	
55	500	475	400	300	
60	575	550	500	400	300
65	650	625	575	500	375

Figure 2: A Portion of MUTCD TABLE II-1

**SIGN SUPPORTS**

**POSTS:** Signs are to be mounted on separate posts. Supplemental signs such as Speed Advisory plates are to be mounted on the same post as the primary sign. *Do not mount signs on trees or other signs.* Posts may be wood, metal, carsonite or similar material. Where sign supports cannot be sufficiently offset from the road edge, supports will meet breakaway standards. Single wood posts with less than 24 square inches do not require breakaway design.

**TEMPORARY/PORTABLE SUPPORTS:** Portable supports may be used for short-term, short-duration, and mobile conditions. MUTCD defines this time period as one work shift, 12 hours or less. All portable supports must

meet MUTCD standards, including breakaway. These must be a minimum of 1 foot above the road surface or more if visibility requires it.

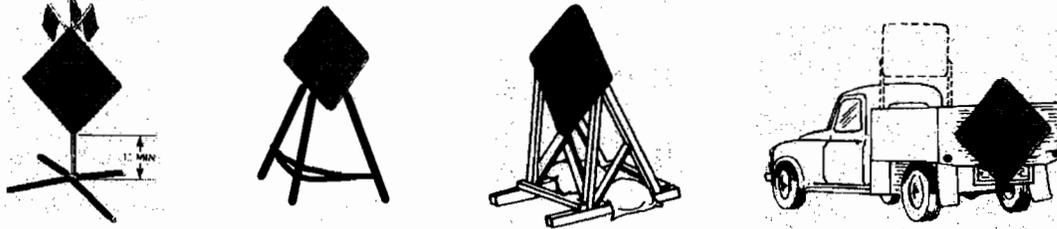


Figure 3: Examples of Temporary/Portable Supports

### SIGNS

The following signs meet the intent of Timber Sale Contract Provision B6.33, SAFETY.  
*This is not a complete listing of signs that may be needed.*



FG20-1-48\*



FG20-2-48



FG20-3-42\*



FG20-3a-42



FW22-3-30



FW20-1-30\*



W21-3-30\*



FW21-4a-30



FW11-7-24



W22-1-36\*



FW8-6-24



FW11-9a-24



W7-3a-24\*



W13-1-18\*\*



W20-7aP-24\*

\* Specify Distance

\*\* Specify Speed



BM-L-O



BM-R-O

Barricade Markers (See MUTCD for length and stripe size)

**C6.331 - SAFETY (HELICOPTER OPERATIONS).** (10/04) Where helicopter yarding operations are being conducted over or in close proximity to roads and trails shown on Sale Area Map, Purchaser shall furnish and post flaggers during active yarding operations to prevent the passage of vehicular or pedestrian traffic beneath such yarding operations.

Purchaser shall provide radio communications between helicopter yarding operations and the flaggers.

Traffic shall be allowed to pass through operation areas at time intervals not to exceed thirty minutes unless otherwise authorized in writing by Forest Service.

Purchaser shall provide and place at locations specified by Forest Service signs warning potential users of roads and trails in the helicopter operating area that traffic delays can be expected during operating hours. Sign size, wording, and construction shall be in accordance with standard warning signs specified in the Manual of Uniform Traffic Control Devices.

C6.332 - SAFETY (TIMBER HAULING). (10/04) Purchaser shall secure all products transported by truck with at least two chain or cable wrappers over the load, such wrappers being securely fastened to effectively contain every bolt or log in at least two places.

C6.339 – ACCIDENT AND INJURY NOTIFICATION (4/05)

Purchaser shall notify Forest Service of any lost time personal injury accident or any accident or vandalism resulting in personal property damage over \$400 in value that occurs as a result of or is associated with Purchaser's Operations.

Purchaser shall notify Forest Service within 8 hours of any personal injury accident. For vandalism and personal property accidents, Purchaser shall notify Forest Service at the same time notification is given to the state and local law enforcement authorities.

Purchaser shall take all reasonable measures after an accident or vandalism event to preserve the scene of the incident and provide information to facilitate a Forest Service investigation.

The method of notification shall be agreed to in writing at the prework conference required by provision C6.10.

C6.351 # – WASHING EQUIPMENT. (7/07) In order to prevent the spread of noxious weeds into the Sale Area, Purchaser shall be required to clean all "Off-Road Equipment" prior to entry on to the Sale Area. This cleaning shall remove all soil, plant parts, seeds, vegetative matter, or other debris that could contain or hold seeds. Only logging and construction equipment so cleaned and inspected by the Forest Service will be allowed to operate within the Sale Area. All subsequent move-ins of equipment to the Sale Area shall be treated in the same manner as the initial move in. For purposes of this provision, "Off-Road Equipment" includes all logging and construction machinery, except for log trucks, chip vans, service vehicles, water trucks, pickup trucks, cars, and similar vehicles.

Purchaser shall employ whatever cleaning methods are necessary to ensure that Off-Road Equipment is free of noxious weeds. Equipment shall be considered free of soil, seed, and other such debris when a visual inspection does not disclose such material. Disassembly of equipment components or specialized inspection tools is not required.

In order to prevent the spread of noxious weed species N/A the Sale Area, Purchaser shall be required to clean all off-road logging and construction equipment that operates in N/A prior to the equipment leaving N/A. Purchaser and Forest Service shall agree on methods of cleaning, locations for the cleaning, and control of off-site impacts, if any.

Unless otherwise agreed, Purchaser shall give the Forest Service at least 24 hours notice when equipment is ready for inspection. Notification will include an agreed upon location where the equipment will be available for inspection by the forest service.

New infestations of noxious weeds, of concern to Forest Service and identified by either Purchaser or Forest Service, on the Sale Area or on the haul route, shall be promptly reported to the other party. Purchaser and Forest Service shall agree on treatment methods to reduce or stop the spread of noxious weeds when new infestations are found. A current list of noxious weeds of concern to Forest Service is available at each Forest Service office.

C6.4# - CONDUCT OF LOGGING. (10/82) Unless otherwise agreed in writing, silvicultural prescriptions and land management objectives shall be conducted and accomplished by the following requirements, methods and procedures:

Cutting Unit	Conduct Of Logging
11A, 11B, 14A, 14B, 15A, 15B, 18, 32, 100, 107, 153A, 153B, 200	Trees shall be felled, insofar as safety permits, to angle in the direction of skidding.
11A, 11B, 14A, 14B, 15A, 15B, 18, 32, 100, 107, 153A, 153B, 200	Purchaser and Forest Service will agree on felling lead at the time of approval of tractor roads/skyline corridors.

<p style="text-align: center;">11A, 14A, 15A, 100, 107, 153A</p> <hr/>	<p>Tractor skid roads will be located, approved, (and constructed) in advance of falling.</p>
<p style="text-align: center;">11A, 14A, 15A, 100, 107, 153A</p> <hr/>	<p>Logs shall be tractor skidded with the leading end free of the ground.</p>
<p style="text-align: center;">11A, 14A, 15A, 100, 107, 153A</p> <hr/>	<p>Tractors shall be restricted to approved skid roads.</p>
<p style="text-align: center;">11A, 14A, 15A, 100, 107, 153A</p> <hr/>	<p>Tractor skid roads shall be no less than <u>100</u> feet apart, except where converging.</p>
<p style="text-align: center;">11A, 14A, 15A, 100, 107, 153A</p> <hr/>	<p>Trees designated for cutting and/or logs will be left as rub trees along tractor skid roads/skyline corridors as needed to protect young growth and leave trees.</p>
<p style="text-align: center;">11A, 14A, 15A, 100, 107, 153A</p> <hr/>	<p>Bucking of windfalls and down material across skid road location is required in advance of construction.</p>
<p style="text-align: center;">11A, 11B, 14A, 14B, 15A, 15B, 18, 32, 100, 107, 153A, 153B, 200</p> <hr/>	<p>Except for lateral yarding, logs shall be yarded with the leading end free of the ground.</p>
<p style="text-align: center;">11B, 14B, 15B, 18, 32, 153B, 200</p> <hr/>	<p>The skyline logging system shall provide for lateral yarding distance up to 75 feet. The carriage must maintain a fixed position on the skyline while lateral yarding. During the lateral yarding phase, logs shall be yarded along a path which minimizes damage to residual trees.</p>
<p style="text-align: center;">11B, 14B, 15B, 18, 32, 153B, 200</p> <hr/>	<p>Skyline corridors shall be located on the ground and approved in advance of felling.</p>
<p style="text-align: center;">11B, 14B, 15B, 18, 32, 153B, 200</p> <hr/>	<p>Where topography will permit, skyline corridors shall be spaced not less than <u>80</u> feet apart nor more than <u>N/A</u> feet apart at the point of widest divergence within the cutting unit.</p>
<p style="text-align: center;">11B, 14B,</p> <hr/>	<p>The location of all skyline corridors shall be approved by Forest Service in</p>

15B, 18, 32,  
153B, 200

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advance of felling trees in corridors or the adjacent timber.

11B, 14B,  
15B, 18, 32,  
153B, 200

---

Skyline corridors shall have only those trees cut that are necessary to allow the safe free passage of the carriage and turn of logs. Width of skyline corridors shall be kept to a practicable minimum consistent with the related silvicultural prescription.

11B, 14B,  
15B, 18, 32,  
153B, 200

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Notwithstanding other designations for cutting, all trees used to support multispans shall be left uncut.

11B, 14B,  
15B, 18, 32,  
153B, 200

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When setting where it is not possible to suspend the leading end of the log during inhaul, an intermediate support will be required. The support must be sufficient to suspend the leading end of the turn as the carriage traverses the skyline.

C6.406# - SITE CONDITION. (10/01) Unless otherwise agreed in writing, in All Cutting Units, the following site condition is required:

A minimum of 17 and a maximum of 33 of woody material will be left evenly distributed on each acre.

Purchaser may be required to remove limbs and tops prior to skidding or yarding or return them to the area after skidding or yarding in order to meet the minimum requirement. If the maximum requirement is not met through normal logging operations, slash will be treated in accordance with specifications listed in the Hazard Reduction and Site Preparation Plan.

C6.41# - SPECIAL FELLING REQUIREMENTS. (10/04) Unless otherwise agreed in writing, the following special requirements shall be met in felling timber designated for cutting:

Cutting Unit	Item or Area to be protected	Protection Measure
ALL	Soils	Mechanical felling shall be approved in advance and shall only be allowed off of approved skid trails when there is sufficient snow, frozen ground, or slash mat to prevent ground disturbance or compaction.

C6.422 - HELICOPTER LANDING LOCATION AND CONSTRUCTION. (5/76) All helispots, heliports, support areas, and other helicopter landing areas shall be located and constructed only as approved by Forest Service in writing.

Those specified landing and service areas shown on Sale Area Map are approved and shall be constructed in accordance with plans and specifications attached hereto.

Landing areas other than those specified on Sale Area Map will be considered for approval under the following conditions:

A. The location and extent of landing area are staked on the ground. The extent or limits shall include the total area of excavation and fill, if any.

B. The clearing needed outside the constructed landing area needed for takeoffs and landings are flagged or otherwise designated.

C. Plans are made to dispose of clearing and landing construction slash and debris.

Landing areas shall be constructed and rock surfaced, if necessary, in such a manner that helicopters, log handling equipment, and service or support equipment are fully supported during Normal Operating Season.

C6.6 - EROSION PREVENTION AND CONTROL. (10/04)

Unless otherwise agreed in writing, Purchaser shall complete erosion prevention and control work required in section B6.6, including Streamcourse protection, within 15 calendar days after completion of skidding and/or yarding operations for each landing.

Designation of on the ground work shall be done as promptly as feasible unless it is agreed that the location of such work can be established without marking on the ground.

During 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.

When operations are active outside the Normal Operating Season defined in A16, erosion control work will be kept current and will be completed as soon as practicable.

**C6.601# - EROSION CONTROL SEEDING.** (3/07) Following completion of skidding and yarding operations in an area, Purchaser shall seed and fertilize all exposed areas of raw soil on skid trails, landings, firebreaks, slides, slumps, Temporary Roads and traveled ways of National Forest system roads scheduled for stabilization by Purchaser after operations. Special Provision C5.419# - SYSTEM ROAD STABILIZATION contains a list of the roads requiring seeding and fertilizing.

Soil on areas to be seeded shall be left in a roughened condition favorable to the retention and germination of the seed or as specified in Special Provision C6.633# - TEMPORARY ROAD, SKID TRAIL/SKID ROAD AND LANDING SCARIFICATION.

Seed and fertilizer shall be spread evenly at the rate of 23 pounds of seed and 200 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.

Application shall be during the period May 15 to June 30 and September 1 to October 31 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:

Species of Seed	PLS Pounds per Acre
Slender Wheat Grass "Highlander or Pryor"	3
Mt. Brome "Bromar"	4
Streambank Wheatgrass "Sodar"	4
Sheep fescue "Durar" ( Festuca ovina)	5
White Dutch Clover or Aliske Clover (Tirfolium hybridum)	3
Annual Rye (Lolimu multiflorum)	4
TOTAL	23

Purchaser shall provide to the Forest Service:

1. Blue tags, or copies of blue tags from each seed lot used in the specified mix. Only certified, blue-tagged seed shall be used. The blue tag represents a field certification and serves as evidence of the genetic purity and varietal identity of the seed contained in the seed lot .
2. Labels which indicate the percentage composition of the various species in the seed mix.
3. Copies of Seed Analysis Reports from a certified seed analyst for each seed lot used in the specified mix. Purchaser will obtain this report from the seed provider. Seed Analysis Reports must include at a minimum, content of any noxious weed seeds listed on the current "State of Idaho Noxious Weeds List". Only after the Forest Service has

verified that this report indicates the seed does not contain any weeds on the current “State of Idaho Noxious Weeds List”, will the seed be accepted and used.

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

Type of Fertilizer	Pounds Per Acre
16-16-16	200

C6.661 - CURRENT OPERATING AREAS. (10/04) Unless waived in writing by Forest Service, Purchaser shall remove accumulations of slash and logging debris in operating areas from system roads prior to the end of Normal Operating Season. Slash and logging debris in excess of three (3) feet in length and three (3) inches in diameter shall not remain on backslope, in ditches, or on traveled way, shoulders or turnouts. Debris shall be scattered downslope from the roadbed, avoiding any concentrations. When weather permits operation after Normal Operating Season, Purchaser shall keep such work on any additional disturbed areas as current as practicable.

C6.7 - HAZARD REDUCTION AND SITE PREPARATION. (3/89) Purchaser's timing of product removal, hazard reduction and site preparation shall not unnecessarily delay Forest Service slash disposal, site preparation or reforestation. Purchaser shall perform hazard reduction and site preparation work in accordance with the Hazard Reduction and Site Preparation Plan and Map which are attached hereto and made a part hereof. Such work is in addition to Required Deposits for slash disposal.

1) **Landing Cleanup, All Cutting Units & Helicopter Landings**

**A landing is considered a place where any logs or products are gathered for loading. Logs not meeting utilization standards accumulated at landings shall be (decked) or (returned to the cutting unit) as agreed to in writing by the Forest Service. All slash accumulated at landings shall be piled.**

Piles shall be reasonably compact and free of soil to facilitate burning. Piles will not be less than 8 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 20 feet from residual timber. Piles shall not be more than 30 feet long.

**All objects which extend more than 8 feet in any direction from the windrow or pile will be cut off and returned to the windrow or pile.**

**The Piling of landings will be done by a Grapple-type machine.**

- (2) **Lopping, All of Units 5H, 6H, 11H, 14B, 15A, 15B, 18, 30H, 32, 32H, 100, 107, 153A, 153B, .** See Hazard Reduction and Site Preparation Map.

**Prior to skidding operations, Purchaser shall cut all exposed limbs from included Timber. Such limbing shall be done to a top diameter of approximately 4 inches diameter inside bark, at which point the top will be cut from the remainder of the stem. Limbs shall be severed from the remaining top and all limbs cut from the top and boles will not extend over 1.5 feet in height above the ground. All limbs and tops shall be left within the cutting unit.**

- (3) **Yard Tops; In all of units 11A, 11B, 14A, 200 and portions of 5H, 6H, 14B, and 15B tops will be yarded within 200 feet along the unit boundaries, as shown on the Sale Area Map. See Hazard Reduction and Site Preparation Map.**

**Purchaser shall leave the tops of felled tree attached to the top log and yard them to landings within the specified timber sale units or portions of units as shown on the Hazard Reduction and Site Preparation Map.**

- (4) **Hand Fireline, Units 14A, 14B, and 18.** See Hazard Reduction and Site Preparation Map.

Firebreaks shall be constructed by hand around the perimeter of Cutting Units as shown on the Purchaser Hazard Reduction and Site Preparation Map. A fuelbreak shall be cleared of all vegetative debris larger than 1 inch in diameter and 3 feet long for a minimum width of 8 feet. All vegetative material removed from the firebreak shall be scattered within the unit and not windrowed or otherwise concentrated adjacent to the fuelbreak. Large fuels, such as chunks of logs, shall be placed in line laying up and down the slope so they will not roll down the slope during burning operations. On the exterior edge of the fuelbreak a fireline will be constructed so that a continuous mineral soil line not less than 1 foot in width shall be cleared to completely expose mineral soil. All material removed in construction of the fireline shall be placed outside of the fireline and scattered so concentrations next to the fireline do not exist.

Firelines installed along the bottom of a unit on slopes over 35 percent will be "V" shaped, at least 12 inches deep, with dirt thrown over the duff and debris just outside the mineral soil line.

**C6.71 - CHANGE IN SLASH TREATMENTS.** (3/90) Slash treatment measures required in accordance with the Hazard Reduction and Site Preparation Plan and Map 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.

C6.711 - BURNING BY PURCHASER. (10/79) Purchaser shall obtain a written permit from Forest Service before burning any camp refuse, brush, slash or construction debris at any time throughout the year. The terms of the permit will set forth:

- A. Area or location where burning is permitted.
- B. Material to be burned.
- C. Safeguards, including help and equipment to control the fire.
- D. Special precautions to be taken before burning.

Control action needed until the fire is out.

C6.822# - PRESENTATION FOR WEIGHT SCALING. (3/07) To facilitate the requirement of B6.82 that loads be presented so that they may be weighed in an economical and safe manner, and to aid in the accountability requirements of C6.840 or C6.848, Purchaser, unless otherwise agreed in writing, shall:

A. Utilize scales that meet the standard for commercial vehicle scales defined in the National Bureau of Standards Handbook 44, current edition.

B. Weigh all loads on scales currently certified by the State in which weighed. Scales must have a current inspection tag or seal posted which shows the date of the most recent test by the State weights and measures agency. No load shall be presented for weighing that weighs more than the certified capacity of the scales in use. Each load shall be weighed as a single unit with the gross and tare weights stamped and recorded by an automatic recording device on the scales. In addition to the gross weight and the tare weight of the load, Purchaser shall record the following information on each weight slip:

- a. Sale name
- b. Load Removal Receipt number
- c. Date and time weighed

C. Maintain load accountability from the Sale Area to point of weighing. In so doing, the load of products shall remain intact while in transit. Products accidentally lost in transit shall be promptly identified by Load Removal Receipt number and sale designation. Purchaser shall, within 24 hours, load out such lost products and present them for weighing or make other arrangements acceptable to Forest Service.

D. Clearly and legibly paint the last three digits of the Load Removal Receipt in large numbers in BLACK colored paint on the back end of at least three (3) logs of every load transported from the Sale Area

C6.823 - VOLUME DETERMINATION. (10/04) Volume determination shall be based on Weight Measurement unless otherwise agreed. Products shall be weighed on certified scales at locations agreed to by Purchaser and Forest Service. The weight ticket, showing sale name, truck ticket number, date and time weighed, and the gross and tare weights, shall be attached to the Truck Ticket Scaler Receipt/Permit and placed in the location(s) as designated by the Forest Service. Upon request, Purchaser shall furnish Forest Service a copy of the scales certification.

In the event of weight scale equipment breakdown or suspension of use for other reasons, hauling will be suspended until Purchaser and Contracting Officer agree to an alternate weighing location.

If load removal receipts or weigh tickets are not provided for any reason, Forest Service shall use data from the records during the period in which loss occurred to determine weight of load(s). The weights of such load(s) shall be deemed equal to the load with the heaviest net weight presented during the payment period in which the loss occurred.

Payment for lost products may not be required if Forest Service determines that the weight of such lost products involved is small and justified by existing conditions.

C6.840- WEIGHT ACCOUNTABILITY. (10/04) Products shall be accounted for as follows:

A. Requirements Applicable to Purchaser Accountability Obligations

a. Where Purchaser's product accountability responsibilities are concerned, all operations performed by Purchaser's employees, agents, contractors, subcontractors, their employees or agents, Purchaser's obligations shall be the same as if performance is by Purchaser.

B. Requirements Applicable to Woods Receipt Ticket Book

a. Forest Service will issue to Purchaser or designated representative(s) serially numbered Woods Receipt ticket books for use only on this sale. Woods Receipt ticket books whether used or unused shall be accountable property of Forest Service and shall be returned to issuing District Ranger in accordance with instructions contained on cover of each book.

b. Purchaser shall require:

1. All receipts be filled out in ink by an individual named in writing other than the truck driver and be attached to load before products are hauled from immediate vicinity of or adjacent to location where loading is done showing date loaded, brand, sale name, and destination where products will be weighed. Receipts shall be attached in accordance with instructions on inside cover of Woods Receipt ticket book.
2. Before products are hauled, truck driver to sign legal signature in ink on Woods Receipt stub.
3. Purchaser shall assure that all used Scaler Receipts are returned to the issuing Contracting Officer or as otherwise agreed.

### C. Requirements Applicable to Weight Slips

#### a. Purchaser shall assure that:

1. All products removed are presented for weighing at agreed to locations and that gross and tare weights are obtained on certified scales.

That weight slips for each load are attached to proper Scaler Receipt and deposited in accordance with procedures established by the Forest Service.

C6.849 - ROUTE OF HAUL. (10/04) Within 60 days of date Forest Service executes and returns contract and as part of the annual Operating schedule, Purchaser shall furnish Forest Service a map and a written general plan for hauling Included Timber from Sale Area. The plan shall set forth:

- A. Designated haul route(s)
- B. Designated weight scales

Forest Service written approval of the haul route(s) and weight scales is prerequisite to commencement of Purchaser's operations. The designated weight scales must be certified to be acceptable by Forest Service. The Purchaser may be required to furnish Forest Service a copy of certification upon request.

Upon advance written agreement, other haul routes may be approved. All products removed from Sale Area shall be transported over the designated routes of haul. Purchaser shall notify Forest Service when a load of products, after leaving Sale Area, will be delayed for more than 12 hours in reaching weighing location.

Purchaser shall require truck drivers to stop, if requested by the Forest Service, for accountability checks when products are in transit from Sale Area to the designated weighing location.

Locations for accountability checks shall be agreed to by Purchaser and Forest Service in advance of haul. Such locations shall be established only in areas where it is safe to stop trucks.

Forest Service will notify Purchaser of the methods to be used to alert truck drivers of an impending stop.

C6.929- REQUIREMENT FOR FOREST PRACTICES ACT NOTIFICATION. (10/01) To meet the requirements of the State of Idaho Forest Practices Act, as it relates to the Clean Water Act, the Purchaser shall, at time of execution of this contract, complete the notification forms prescribed by the Idaho Department of Lands and submit them to the Contracting Officer for acceptance. The original will be retained by the Forest Service with a copy provided to the Purchaser. The Contracting Officer will mail the remaining copies to:

Idaho Department of State Lands  
3780 Industrial Avenue South  
Coeur d'Alene, ID 83815-8918

C7.2 - NORMAL PRECAUTIONS. (2/02) Specific fire precautionary measures are set forth below. Upon request of Forest Service, Purchaser shall permit and provide an individual to assist in periodic testing and inspection of required fire equipment. Purchaser shall promptly remedy deficiencies found through such inspecting and testing.

The following requirements shall apply during the period stated in A12 and during other such periods as specified by Forest Service.

A. Fire Extinguishers and Tools Required with Equipment. Each unit of powered equipment used in connection with this sale shall be equipped with serviceable tools and fire extinguishers acceptable to Forest Service as follows:

1. STATIONARY EQUIPMENT. Examples include yarders, log loaders, Hahn Harvester, stroke delimiters, roadside/landing based processors, whole tree chippers, rock crusher, asphalt plant, or other equipment working at fixed locations such as a landing or rock crushing site.

One - Fire extinguisher, dry chemical type of not less than 2.5-pound capacity with 4 B.C. or higher rating.

One - 5-gallon standard galvanized metal, fiber glass or rubberized backpack water container, with hand pump attached, to be filled at all times.

Weatherproofed tool box marked "FIRE ONLY," equipped with a hasp, kept sealed, and containing:

One - Axe, double bit, 3.5#

Two - Shovels (round point #0 lady or equal)

Two - Pulaskis

The tool box shall be mounted on equipment, if feasible, unless another location is agreed to in writing. The tool box shall be within 100 feet of the designated machine at all times when operating. Only one (1) tool box is required at each active fixed location site.

2. MOBILE EQUIPMENT. Examples include crawler tractors, rubber-tire skidders, soft-track skidders, forwarders, feller-bunchers, feller-processors, excavators, front-end loaders, back-hoes, scrapers, and motor graders.

One - Fire extinguisher, dry chemical type of not less than 2.5-pound capacity with a 4 B.C. or higher rating.

One - Shovel (round point #0 lady or equal). For equipping mobile equipment, an acceptable substitute is a "D-handle" round point shovel with a minimum 27-inch handle and a minimum 8- by 11-inch blade.

One - Axe, double bit, 3.5#, or one pulaski.

3. SUPPORT EQUIPMENT. Examples include trucks, low-boys, busses, pickups, panels, automobiles, service trucks, or similar equipment used in transporting logs, people, equipment, and/or materials.

One - Fire extinguisher, dry chemical type of not less than 2.5-pound capacity with 4 B.C. or higher rating

One - Shovel (round point #0 lady or equal)

One - Axe, 2# or over, 26-inch minimum length, or one pulaski

One - Bucket or similar water container (at least 1-gallon capacity)

4. POWER SAWS

One - Shovel (round point #0 lady or equal). Shovel shall be with gas containers and/or no more than 100 feet distance from where sawyer is working.

One - Fire extinguisher, containing not less than eight (8) ounces of extinguisher fluid or a dry chemical powder type of not less than one (1) pound capacity. The extinguisher shall be carried by the operator at all times.

Any fueling or refueling of a power saw shall only be done in an area which is free of or which has first been cleared of all material capable of carrying fire; such power saw shall be moved at least 10 feet from place of fueling before starting.

B. Fire Tools on Sale Area. Purchaser shall furnish and maintain in serviceable condition, in quantities and at locations to be designated by Forest Service, tool boxes, fire tools and other fire equipment to be used only for suppressing forest fires. Each tool box shall be weatherproofed and marked "TOOLS FOR FIRE ONLY" and kept sealed. These requirements are in addition to fire tool requirements for mobile, stationary, support or power saw equipment.

1. Special tool caches shall not be required when less than 20 people are employed on Sale Area, excluding logging truck drivers.

2. Operations employing more than 20 individuals on Sale Area, excluding truck drivers, shall furnish a tool cache with a minimum of one serviceable tool per person in the following configuration:

Axe, double bit, 3.5#, 10%

Shovels (round point #0 lady or equal), 45%

Pulaskis, 45%

C. Spark Arresters. Each internal combustion engine shall be provided with a spark arrester or spark arresting device approved by Forest Service. Exceptions where Forest Service may approve mufflers or other equipment in lieu of spark arresters qualified and rated under Forest Service standard 5100-1a are: (a) small multi-position engines, such as chain saws, shall meet Society of Automotive Engineers J335b standards, (b) passenger-carrying vehicles and light trucks may have baffle-type muffler with tail pipe, (c) heavy-duty trucks may have a vertical stack exhaust system with muffler, provided the exhaust stack extends above the cab of the vehicle, (d) an exhaust driven turbocharger is considered to be a satisfactory spark arrester. Internal combustion engine exhaust systems, arresters and other devices shall be properly installed and maintained.

D. Blasting. Fuse or prima cord shall not be used unless authorized in writing by Forest Service, with special precautions stated.

E. Smoking. Smoking shall not be permitted within logging operations except on surfaced or dirt roads, at landings, within closed vehicles, in camps or at other posted places. Smoking shall not be permitted while working or traveling on foot, within or through Sale Area.

F. Precautions for Stoves. Stovepipes on all temporary buildings, trailers, and tents using wood-burning stoves shall be equipped with roof jacks and serviceable spark arresters of mesh with openings no larger than 5/8 inch. All stovepipes, inside and out, shall not be closer than two (2) feet from any wood or other flammable material or one (1) foot if the combustible material is protected by a metal or asbestos shield.

G. Debris Around Buildings. The grounds around buildings, tents and other structures shall be kept free of flammable material for a distance of at least 15 feet from the wall of such structures.

H. Storage of Petroleum and Other Highly Inflammable Products. Gasoline, oil, grease, or other highly flammable material shall be stored either in a separate building or at a site where all combustible debris and vegetation is cleared away within a radius of 25 feet. Fire extinguishers and/or sand barrels may be required at such locations specified by Forest Service when unusually hazardous conditions exist.

I. Debris Burning and Warming Fires. Burning permits shall be required throughout the year for all debris burning fires. Lunch and warming fires may be allowed in fireproofed areas during periods of low fire danger as specified in the fire plan. Such fires shall not be left unattended.

J. Cable Logging. All tail blocks and corner blocks shall be of an accepted haulback design which prevents line fouling and used with line guards. Such blocks shall be located to prevent cables from rubbing against trees, snags, down logs or rock when operating.

Areas adjacent to blocks shall be cleared of flammable material within a 5-foot radius. One (1) shovel and one (1) pulaski shall be maintained within 10 feet of each block.

K. Emergency Measures. Additional measures and/or other special requirements necessary during periods of critical fire-weather conditions shall be included in the fire prevention and presuppression plan.

L. Welding. Welding and use of cutting torches or cutoff saws will be permitted only in areas that have been cleared or are free of all material capable of carrying fire. Flammable debris and vegetation must be removed from within a minimum 10-foot radius of all welding and cutting operations. A shovel and a 5-gallon standard backpack water container filled and with handpump attached shall be immediately available for use in the event of a fire start.

C7.201 - FIRE PRECAUTIONS (HELICOPTER). (2/05) In addition to Normal Precautions provided for in C7.2, Purchaser shall provide or take the following precautions or actions where helicopter yarding is specified or permitted.

A. Fire tools, including backpack pump and tool boxes, required at landings shall have a sling arrangement for immediate helicopter transportation of the tools to the vicinity of any fire within Sale Area. The sling arrangement shall not impede access to the tools.

B. Notify Forest Service immediately upon discovery of any fire in or adjacent to the operating area.

C. Store inflammable liquids (fuel) only in tank trucks or trailers specifically designed for storing and transporting liquid fuel or in stationary tanks securely bedded on skids or frames to prevent rolling or tipping. Fuel storage area shall be adequately diked with dirt to prevent fuel spillage or leakage from spreading beyond the diked area. Mobile fuel tanks (trailers or trucks) shall also be parked within a diked area.

Polyethylene, rubber or other flexible type fuel storage facilities will not be permitted on National Forest land.

D. Provide at fuel servicing operations fire extinguishers which have the following ratings based on the open hose discharge capacity, i.e., "broken hose" of the aircraft fueling system:

1. Where said capacity does not exceed 200 gallons per minute, at least one (1) approved extinguisher having a minimum rating of 20-B,
2. Where said capacity is in excess of 200 gallons per minute, but not over 350 gallons per minute, one (1) approved extinguisher having a minimum rating of 80-B,
3. Where said capacity is in excess of 350 gallons per minute, two (2) approved extinguishers, each having a minimum rating of 80-B.

Extinguishers of over 50 pounds gross weight shall be of the large diameter wheel type or be mounted on carts to provide mobility and ease of handling.

E. Provide a suitable helicopter water bucket which can be readily lifted and transported by the yarding helicopter to deliver water to a fire by dropping the water from the bucket by a remote gate release. The bucket shall be of a size capable of holding water equal in weight to 60 percent of the helicopter's external gross load as indicated in the Flight Operation Manual accompanying the helicopter and as approved by the Federal Aviation Administration for a standard day.

The bucket shall be located at the landing to which the helicopter is yarding logs and be ready for immediate use with a maximum hookup and get-away time of five (5) minutes. The bucket will either be kept full of water or retardant to the lift capacity of the aircraft at expected temperatures or a system provided acceptable to Forest Service, which has the capacity to fill the bucket within the 5-minute maximum hookup and get-away time.

Purchaser shall develop or provide a water source from which the required bucket can be hoverfilled at least three (3) times without resupply. The water source, natural or artificial, shall be within five (5) minutes, round trip, by helicopter from Sale Area.

At least once a month the water bucket will be checked by making at least one (1) hookup and drop to assure that it is in operating condition.

F. Every aircraft used in conjunction with Purchaser's Operations shall be equipped with an operable radio system. The radio system shall be capable of transmitting and receiving on VHF frequency 122.85 Megahertz (MHz) with a minimum output of 5 watts at the transmitter. The system shall be located and installed so that the pilot can operate it while flying. A shielded all-weather broad-band antenna shall be part of the system. Radio and antenna shall be properly installed and maintained.

Upon discovery or notification of a fire on the Sale Area, all aircraft pilots controlled by the Purchaser shall monitor VHF frequency 122.85 MHz within 5 miles of the fire and broadcast their intentions.

C8.66# – USE OF TIMBER. (4/04) (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 N/A 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.