

K-C.2# - UTILIZATION AND REMOVAL OF INCLUDED PRODUCTS (4/03) Unless otherwise agreed in writing, or as specified in K-C.2.1.1# - Optional Removal of Non-sawtimber Products, Contractor is required to pay for and remove the following products described in A.2 of the contract:

Sawtimber is the boles of trees meeting Sawtimber Product specifications as listed in A.2 of the contract.

Non-sawtimber is the boles of trees meeting Non-sawtimber Product specifications as listed in A.2 of the contract, but that do not meet the minimum piece specifications for Sawtimber Products. Non-sawtimber removal is only required in Cutting Units G1,G3,G5,G6,G7S, G8,G10,G11,E3 and E8. Only the volume of non-sawtimber in the cutting units listed above is included in the estimated volume shown in A.2. If the Contractor 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 A.4.

K-C.3.0.1# - DESIGNATION OF RESERVE TREES (5/04) Notwithstanding the designations for cutting in other provisions of this contract, within Cutting Units G1,G2,G6,G7H and G7S, live or dead reserve trees or groups of reserve trees within such cutting units or clearings shall be left uncut. Such reserve trees are identified as Ponderosa Pine and Larch > 20" dbh, and shall be protected in accordance with K-G.3.2.0#.

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.

K-C.3.5.9# - INDIVIDUAL TREES (CUT TREE MARKING). (10/04) In Cutting Units G3,G4(optional),G5, and G11, individual trees to be cut have been marked with a horizontal stripe of blue paint at about dbh and a blue mark below stump height.

The boundaries of areas where individual trees are marked to be cut are designated by three streaks of orange paint extending from near ground level to a height of 6 feet or more, on three sides of cutting unit boundary trees, and an orange mark below stump height. The middle streak faces the cutting unit. Where a cutting unit is adjacent to a system road, the road is the boundary and no paint was used. Trees used for boundary designation are not to be cut.

K-C.3.8# - 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 **Contract Area Map**:

Unit	Designated Species	Maximum Stump Diameter – (Inches)
G1	DF,C	17"
	L	12"
	LP,AF,S,GF,H	NA
G6 (except SMZ)	DF	15"
	LP,AF,GF,H	NA
	C,S,L	9"
SMZ-G6,G7H,G7S	DF-Sawlogs	15"
	LP-Sawlogs	NA
G7H (except SMZ)	DF	15"
	GF	20"
	LP,AF,C,H	NA
G7S(except SMZ)	DF	15"
	GF	20"
	LP,AF,H	NA
	C,S,L	9"
G8	DF,C	17"
	L	11"
	LP,AF,S,GF,H	NA
G10	L,DF,C	9"
E3	LP	NA
	DF,L,C,GF,S,AF,H,PP,WP	12"
E8	DF,C,H	11"
	GF	15"
	L,PP	9"
	LP,S,AF	NA

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 Contractor's logging in the immediate vicinity which meet Utilization Standards in amounts less than specified in C1.3.3 are designated for cutting.

Trees of the species listed above that are designated to be left standing are marked with a horizontal stripe of orange paint at about dbh and an orange mark below stump height.

In addition to those species listed above, trees marked with a horizontal stripe of blue paint at about dbh and a blue mark below stump height are also designated for cutting.

The boundaries of units are marked on three sides of cutting unit boundary trees with vertical streaks of orange paint extending from near ground level to a height of 6 feet or more, and an orange mark below stump height. The middle streak faces the cutting unit. Where a cutting unit is adjacent to a system road, the road is the boundary and no paint was used. 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.

K-E.2.1.5 - DEPOSITS WHEN PAYMENT GUARANTEED (10/05) To the extent payment guarantee is provided under E.3, requirements for advance cash deposits under E.2.1.2 shall be waived for the value of timber on Contract Area that is cut, but not removed, and for the value of products removed from Contract Area, subject to the provisions of E.4.

Pursuant to E.2.2, Base Rates and Required Deposits must be paid in cash on a monthly basis.

K-F.1.2# – USE OF ROADS BY CONTRACTOR. (9/04) Contractor's use of existing roads identified on Contract 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. Contractor’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		
402	Snow Creek	Begin	End	R	Hauling is prohibited from 6pm Friday to midnight Sunday, and on the following holidays: Memorial Day, 4 th of July, Labor Day, Thanksgiving, Christmas, and New Year’s Day.

K-F.1.2.3# - ROAD USE, LIABILITY INSURANCE. (3/90) Contractor shall have in force public liability insurance covering: (a) property damage in the amount of \$100,000 and (b) damage to persons in the minimum amount of \$400,000 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 \$500,000 providing for at least \$100,000 in the event of property damage and \$400,000 in the event of death or injury. The coverage shall extend to commercial hauling activities on roads listed in this provision. The Contractor 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 Contractor’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. Contractor commercial hauling shall include hauling by Contractor, Contractor’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 J.3 Breach.

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

Road Number	Road Name	Termini
402	Snow Creek	All

CERTIFICATE OF INSURANCE
_____ **Stewardship 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 CONTRACTOR
[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 STEWARDSHIP CONTRACT issued to the CONTRACTOR on XXXXX, said requirements included in special provision K-F.1.2.3#- Road Use, Liability Insurance (3/90) of said STEWARDSHIP CONTRACT.

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

SIGNED
(CONTRACTOR) (DATE)

SIGNED
(Authorized Representative (DATE)
of INSUROR)

K-F.1.3# – ROAD COMPLETION DATE. (9/04) Construction of Specified Roads shall be completed no later than October 31, 2009; except for earlier construction completion dates for roads listed below:

Road Number	Road Name	Station		Completion Date
		From	To	
N/A				

Completion date is binding on the party that constructs road, whether Contractor or Forest Service. Contracting Officer may modify the completion date in writing to conform to the Technical Proposal under G.3.1.1 at the request of Contractor.

When Contractor elects Forest Service construction of Specified Roads shown in contract 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 Contractor on request. Promptly after the end of Normal Operating Season in which qualifying days occur, Forest Service shall give Contractor 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, Contractor may request a rate redetermination under D.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 Contract 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 Contractor 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 Contractor desires to construct an alternate facility under F.2.6, Forest Service and Contractor 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 Contractor 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 provision, construction of a road is completed when:

(a) Contractor constructs Specified Roads and Forest Service furnishes Contractor with written notice of acceptance under G.3.6 or

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

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

K-F.2.2.1# – MATERIAL SOURCES. (9/04) Sources of local materials are designated on Plans and Contract Area Map. Forest Service assumes responsibility for the quality and quantity of material in designated sources. Contractor shall determine the equipment and work required to produce the specified product, including the selection of acceptable material that is reasonably available in the source that meets specifications. The designation of source includes the rights of Contractor to use certain area(s) for plant site, stockpiles, and haul roads.

Should the designated source, due to causes beyond the control of Contractor, contain insufficient acceptable material, Forest Service will provide another source with adjustment in accordance with F.2.5.3.

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

When Contractor elects not to use designated sources and the Schedule of Items lists pit development separately, cost allowance will be reduced under F.2.5.3 when Forest Service determines the work will not be required.

When materials are subject to a weight measurement, the specific gravity or weight/volume

relationship used as a basis for determination of estimated quantities shall be:

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

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

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

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

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

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

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

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

K-F.3.1# – ROAD MAINTENANCE REQUIREMENTS. (9/04) Contractor 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	T103	T108	T113	T201	T301	T310	T506	T508	
2190	3.3	Rd 402	3.3	P		P			P	P	P	P	
402A native	0.9	0.2	0.7	P		P			P	P	P	P	
402A gravel	0.2	Rd 402	0.2	P		P	P	P	P	P	P	P	
402	Rd 2190	C13	5.5	P		P	P	P	P	P	P	P	

P = Contractor 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	T113	T201	T301	T310	T506	T508	
2190	3.3	Rd 402	3.3	P	P	P			P	P	P	P	
402A native	0.9	0.2	0.7	P	P	P			P	P	P	P	
402A gravel	0.2	Rd 402	0.2	P	P	P	P	P	P	P	P	P	
402	Rd 2190	C13	5.5	P	P	P	P	P	P	P	P	P	

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

Road	Termini		Miles	Applicable Post Haul Road Maintenance Specifications									
	From	To		T101	T103	T108	T113	T201	T301	T310	T506	T508	
2190	3.3	Rd 402	3.3	P		P			P	P	P	P	
402A native	0.9	0.2	0.7	P		P			P	P	P	P	
402A gravel	0.2	Rd 402	0.2	P		P	P	P	P	P	P	P	
402	Rd 2190	C13	5.5	P		P	P	P	P	P	P	P	

P = Contractor 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 **G.3.3#** 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 Contractor operations.

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

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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 Contractor 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-113 SURFACING REPAIR

DESCRIPTION

1.1 Surfacing repair is patching potholes or small areas of broken asphalt or imported aggregate surfaces and asphalt dikes. It includes preparing the area to be patched and furnishing and placing all necessary materials, including base, and other work necessary to patch the surfacing, including paved shoulders. Sections requiring repair work shall be limited in area not to exceed 20 square feet for paved surfaces or 200 square feet for aggregate surfaces and not more than 10 areas per mile per year.

MATERIAL

2.1 Materials used for repair of aggregate surfacing shall conform to these specifications:

2.2 Materials used for asphalt patching shall conform to or exceed the requirements of these specifications:

REQUIREMENTS

3.1 Aggregate Surfacing Repair. Aggregate material shall be placed in accordance with the applicable specification used in paragraph 2.1 above. Work under this specification shall be performed in a timely manner to reduce further deterioration of the surface.

3.2 Asphalt Surfacing Repair.

A. Potholes (deep patch). Remove the surface course and base course as deep as necessary to reach firm support; extend horizontally at least six (6) inches into good asphalt surfacing surrounding the cracked area. Make the cut square or rectangular with faces straight and vertical. Prime the bottom and faces using MC70, MC250, MC800, or emulsified asphalt (penetration type). Backfill the hole with asphalt mix and compact. Use 2-inch layers if the hole is more than four (4) inches deep. Compact each layer thoroughly with mechanical tampers or rollers. Compaction shall not be done with equipment wheels without prior approval. The patch when completed and compacted shall be flush with surrounding surface.

B. Skin Patches. Minor depressions, light ravelling, or surface checking at scattered locations shall be treated by applying a skin patch. Carefully broom the surface of all loose material and apply a tack coat of MC70, MC250, or emulsified asphalt (penetration type) at the rate of 1/10-gallon per square yard. Place asphalt mix, distribute uniformly, and feather edges with asphalt rakes so the patch when compacted shall be flush with the adjoining surface. Roll thoroughly with a portable roller.

3.3 Asphalt Dikes. Asphalt material in the damaged length of dike shall be removed. Clean and repair asphalt foundation as necessary. Level exposed ends of existing dike. Prime all surfaces with bituminous material. Asphalt mix shall be placed and compacted to conform with the shape of the original dike.

3.4 All asphalt material removed from potholes, patches, and dikes shall be disposed of in designated area.

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-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 Contractor operations in connection with road maintenance.

REQUIREMENTS

3.1 Contractor shall provide and apply the required kinds and amounts of seed and fertilizer in accordance with the requirements in G.6.0.1#.

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

K-F.3.1.6# - 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 Contractor 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 2 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 2 inch depth must be left to protect the roadway.
7. Contractor's damage from, or as a result of, snow removal shall be restored in a timely manner.

K-F.3.2# – ROAD MAINTENANCE DEPOSIT SCHEDULE. (9/04) Other provisions herein notwithstanding, when Forest Service requests payment in lieu of Contractor's performance of road maintenance, Contractor 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 Contractor's commensurate use of each road listed in the Road Maintenance Plan in K-F.3.1#.

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

The Required Deposits for Forest Service work in lieu of Contractor performance and for deferred maintenance is: \$0.36 per ton.

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

Deposit Made To	Rate	Unit of Measure
N/A		

K-F.4.1# - CLOSURE TO USE BY OTHERS. (3/07)

A. Closure of Roads During Period of Contract. Unless otherwise agreed in writing between Contractor and Forest Service, Contractor 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 Contract 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 Contractor and his employees when engaged in contract activities. It shall also include administrative traffic by Forest Service, and other landowners for the administration of their lands. Contractor 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
2190	At Junction with Road 402	Purchaser	Powder-River Type Gate	Purchaser	

During the life of this contract, Contractor shall install temporary barricades at locations designated "Temporary activity Barricade" on Contract Area Map and shown below. Temporary barricades shall be installed so that they may be readily opened by Contractor or Forest Service for access to Contract 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. Contractor 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 Contractor's Operations are in areas otherwise closed to motorized vehicles, Contractor 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 Contractor’s Use. Unless otherwise agreed in writing between Contractor and Forest Service, upon completion of use, Contractor shall effectively close to public use the following roads designated "To Be Closed" on Contract 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
N/A				

K-F.4.1# Drawing goes here...

K-G.1.0 - 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 Contractor, or designated representative, will arrange for the meeting with the Contracting Officer.

K-G.2.3 - 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 C.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 Contractor.

Contractor shall protect all known survey monuments, witness corners, reference monuments, bearing trees and line markers against avoidable destruction, obliteration or damage during Contractor'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 Contractor's Operations, Contractor 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. Contractor's agent shall record such surveys in accordance with state survey statutes.

K-G.2.4# - SITE SPECIFIC SPECIAL PROTECTION MEASURES. (9/04) Special protection measures needed to protect known areas identified on Contract Area Map or on the ground include:

Cultural Resource Protection Measures:

N/A

Wildlife and Botanical Protection Measures:

Road reconstruction activities in perennial streams shall only take place July 15 to September 15 to protect fisheries. No spring helicopter logging from April 1 to June 14 in units G7H and optional units G2 and G4 for grizzly bear management. All tractor harvesting shall occur in winter, during the grizzly bear denning period of November 16 to March 31.

Cave Resource Protection Measures:

N/A

K-G.2.7# - NOXIOUS WEED TREATMENT (3/07). The roads shown in the table below and being used by the Contractor shall be treated with herbicide to remove seed-bearing noxious weeds.

Contractor shall:

- A. Include a schedule for herbicide treatment of noxious weeds as part of the Annual Operating Schedule.
- B. Treat roads or road segments required to have noxious weeds treated between May 15 and October 1, unless otherwise agreed in writing.
- C. Follow the “TECHNICAL SPRAYING SPECIFICATIONS”.

Treatment shall consist of spot applications that target those noxious weeds identified on the State of Idaho Noxious weed list that occur from the toe of the fill to the top of the cut, including the running surface and turnouts on the listed roads. Reasonable care shall be exercised to limit application so that spraying does not contact native forbs, grasses, herbs, and trees.

Road Number(s)	Road Termini MP to MP	Herbicide	Prehaul	Posthaul
402	0.0 to 5.5	As agreed to and approved by the Forest Service.	X	X

K-G.2.7# - NOXIOUS WEED TREATMENT - TECHNICAL SPRAYING SPECIFICATIONS
IDAHO PANHANDLE NATIONAL FOREST

1. The Purchaser shall give the Forest Service a 48 hour notification prior to spraying.
2. Spraying will be done by a State of Idaho licensed commercial applicator, and only by personnel under the direct supervision of the licensed applicator.
3. The following herbicides and application rates are approved for use, and are the only authorized methods of weed treatment under this contract provision. All use of herbicides and surfactants shall follow EPA label requirements.

Common Name	Trade name(s)	Application Rate (lbs active ingredient/ acre or oz/ac)
2, 4-D	2, 4-D	As agreed to and approved by the Forest Service Sale Administrator.
Dicamba	Bahvel	As agreed to and approved by the Forest Service Sale Administrator.
Picloram	Tordon	As agreed to and approved by the Forest Service Sale Administrator.
Clopyralid	Transline	As agreed to and approved by the Forest Service Sale Administrator.

4. For treatments from May 15 to October 1, surfactants that cause herbicide to adhere to the plant (stickers) shall be applied with herbicides.
5. No spraying of any chemicals will take place within 25 feet of open water and wet areas. Weed infestations within N/A feet of water can only be treated with NONE labeled for treatment of aquatics, unless otherwise approved in writing by the Forest Service. No spray shall come in contact with open water at any time.
6. No spraying shall occur when rain is expected within six (6) hours of completion of the treatment.
7. Nozzles shall be made of stainless steel or ceramic material.

8. All equipment shall be in good mechanical condition and will be inspected prior to work. The spray pattern, application rates, and calibration shall also be checked before beginning the job and thereafter as deemed necessary by the Forest Service.

9. A tight-fitting lid on all spray tanks is mandatory.

Equipment used to draft water from creeks or rivers must be equipped with anti back siphoning devices.

11. Weather conditions shall be monitored before and during all spraying projects. Spraying is NOT allowed when any of the following conditions exist:

Hand-held equipment: temperature greater than 95 degrees F.; humidity less than 20 percent, or wind greater than 5 MPH.

Truck-mounted equipment: temperature greater than 95 degrees F.; humidity less than 20 percent; or wind greater than 5 MPH..

12. Herbicides shall be transported daily to the project site with the following conditions: Transport only the quantity needed for that day's work; transport concentrate containers only in a manner that will prevent spills; and transport spray in a compartment that is isolated from food, clothing, and safety equipment.

13. Mixing shall only occur on site.

14. The Purchaser shall inspect equipment daily for leaks.

15. The Purchaser shall remove all herbicide containers from national forest land and dispose of them in accordance with all local, state, and federal requirements

16. Applicators will complete a daily pesticide application report as required by the Idaho State Department of Agriculture. Applicators will use the daily pesticide application report form provided by the Forest Service. Daily application reports shall be submitted to the Forest Service within 10 days of application.

17. When spraying occurs prior to road reconstruction, road reconstruction will not begin for at least 10 days following herbicide application.

K-G.3.1.6# - LIMITED OPERATING PERIOD. (5/05) Except when agreed otherwise in writing, Contractor's Operations shall be limited as follows:

Log unit G6 before G7H to utilize same landings.

Log units G6, G7H and G7S within three consecutive seasons to facilitate underburning.

K-G.3.2.0# –RESERVE TREE PROTECTION. (10/04) Contractor shall protect reserve trees, described in K-C.3.0.1#, from damage or destruction in Contractor's Operations. In the event reserve trees are damaged or destroyed by Contractor'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, Contractor shall pay as fixed, agreed and liquidated damages \$2,500.00 for each reserve tree damaged or destroyed in addition to amounts payable under D.4.5 and D.4.6.

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 G.3.3
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.

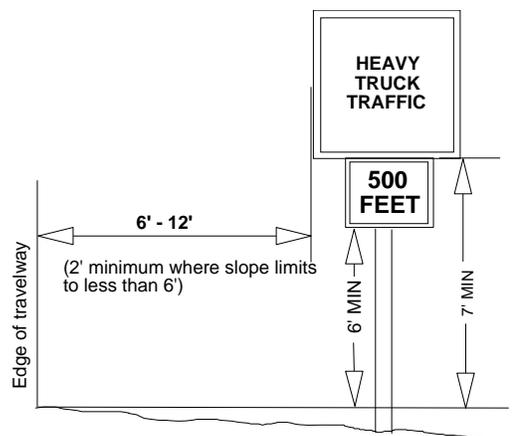


Figure 1: Sign Placement

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.

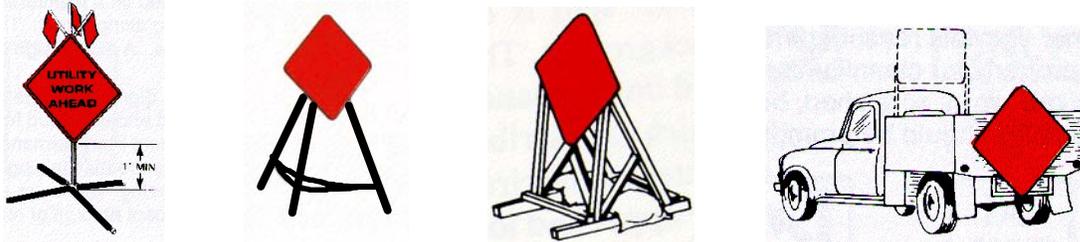


Figure 3: Examples of Temporary/Portable Supports

SIGNS

The following signs meet the intent of Timber Sale Contract Provision G.3.3, 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)

K-G.3.3.1 - SAFETY (HELICOPTER OPERATIONS). (10/04) Where helicopter yarding operations are being conducted over or in close proximity to roads and trails shown on Contract Area Map, Contractor shall furnish and post flaggers during active yarding operations to prevent the passage of vehicular or pedestrian traffic beneath such yarding operations.

Contractor 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.

Contractor 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.

K-G.3.3.2 - SAFETY (TIMBER HAULING). (10/04) Contractor 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.

K-G.3.3.9 - ACCIDENT AND INJURY NOTIFICATION (4/05) Contractor 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 Contractor's Operations.

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

Contractor 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 K-G.1.0.

K-G.3.5.1# - WASHING EQUIPMENT. (7/07) In order to prevent the spread of noxious weeds into the Contract Area, Contractor shall be required to clean all off-road logging and construction equipment prior to entry on to the Contract 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 Contract Area. All subsequent move-ins of equipment to the Contract Area shall be treated in the same manner as the initial move in. "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.

Contractor 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 off the Contract Area, Contractor shall be required to clean all off-road logging and construction equipment that operates in N/A prior to the equipment leaving the Contract Area. Contractor and Forest Service shall agree on methods of cleaning, locations for the cleaning, and control of off-site impacts, if any.

Unless otherwise agreed, Contractor 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 Contractor or Forest Service, on the Contract Area or on the haul route, shall be promptly reported to the other party. Contractor 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.

K-G.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
G1,G3,G5,G6,G7S,G8,G10,G11,E3,E8	Trees shall be felled, insofar as safety permits, to angle in the direction of skidding.
G1,G3,G5,G6,G7S,G8,G10,G11,E3,E8	Purchaser and Forest Service will agree on felling lead at the time of approval of tractor roads/skyline corridors.
G1,G3,G5,G6,G8,G10,G11	Tractor skid roads will be located, approved, (and constructed) in advance of falling.

G1,G3,G5,G6,G8,G10,G11	Logs shall be tractor skidded with the leading end free of the ground.
G1,G3,G5,G6,G8,G10,G11	Tractors shall be restricted to approved skid roads.
G1,G3,G5,G6,G8,G10,G11	Tractor skid roads shall be no less than 100 feet apart, except where converging.
G1,G3,G5,G6,G8,G10,G11	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.
G1,G3,G5,G6,G8,G10,G11, E3 (due to tractor portion)	Tractor skidding and skyline swing (E3) yarding is allowed only over a 24 inch snow layer, 18 inches of settled snow, 4 inches of frozen ground, or an adequate slash mat.
G7S,E3,E8	Except for lateral yarding, logs shall be yarded with the leading end free of the ground.
G7S,E3,E8	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.
G7S,E3,E8	Skyline corridors shall be located on the ground and approved in advance of felling.
G7S,E3,E8	Where topography will permit, skyline corridors shall be spaced not less than 100 feet apart nor more than N/A feet apart at the point of widest divergence within the cutting unit.
G7S,E3,E8	The location of all skyline corridors shall be approved by Forest Service in advance of felling trees in corridors or the adjacent timber.
G7S,E3,E8	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.
G7S,E3,E8	Notwithstanding other designations for cutting, all trees used to support multispan jacks shall be left uncut.

Cutting Unit	Conduct of Logging
G7S,E3,E8	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.
E3	A tractor swing is required. The tractor must be capable of keeping the leading end of the log suspended above the ground. The location of the swing tractor must be located on the ground and approved in advance of use.

K-G.4.1# - 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		Mechanical felling shall be approved in advance and allowed when equipment travels on snow, frozen ground, or a slash mat.
G1,G3,G4,G6,G7H,G7S, and optional units G2 & G4		No mechanical felling equipment allowed in any designated SMZ.

K-G.4.2.2 - 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 Contract Area Map are approved and shall be constructed in accordance with plans and specifications attached hereto.

Landing areas other than those specified on Contract 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.

K-G.5.0# - STREAMSIDE MANAGEMENT ZONES. (12/90) A Streamside Management Zone (SMZ) is a zone that contains riparian vegetation and other special characteristics. Areas identified as Streamside Management Zones (SMZ's) are shown on the Contract Area Map and designated by boundary trees marked with pink paint at about dbh in units G1 and G6; and by pink "SMZ" flagging in units G3, G7S, G7H and optional units G2 and G4.

Timber designation, conduct of logging, and/or slash treatment may differ in the SMZ from the rest of the unit. Unless otherwise agreed to in writing and notwithstanding the contract requirements otherwise applicable to each cutting unit, the following special requirements apply to the SMZ of the cutting units specified below:

Streamside Management	
Cutting Unit	Zone Requirements
G1,G3,G6,G7S,G7H and optional units G2 and G4	No logging or felling equipment allowed. Whole trees of designated sawlogs shall be yarded. Full suspension, where feasible, is required. No small trees <7" dbh shall be cut and removed.

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

Unless otherwise agreed in writing, Contractor shall complete erosion prevention and control work required in section G.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, Contractor 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 A.16, erosion control work will be kept current and will be completed as soon as practicable.

K-G.6.0.1# - EROSION CONTROL SEEDING. (3/07) Following completion of skidding and yarding operations in an area, Contractor 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 K-F.4.1.9# - 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 K-G.6.3.3# - TEMPORARY ROAD, SKID TRAIL/SKID ROAD AND LANDING SCARIFICATION.

Seed and fertilizer shall be spread evenly at the rate of 18 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 1 to June 15 and September 1 to September 30 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 wheatgrass "Pryor" or "Revenue" (<i>Elymus trachycaulus</i> ssp. <i>Trachycaulus</i>)	3.0
Sheep fescue "Durar" (<i>Festuca ovina</i>)	5.0
Mountain brome "Bromar" (<i>Bromus marginatus</i>)	5.0
Annual rye (<i>lolium multiflorum</i>)	4.0
Streambank wheatgrass ("Sodar")	1.0
TOTAL	18.0

Acceptable substitutes: Blue wildrye "Arlington" or "Elkton" (*Elymus glaucus*) @ 3PLS LBS/AC for slender wheatgrass. Use of Alsike clover would conflict with other resource values (e.g. grizzly bear habitat).

Contractor 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. Contractor 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
16N-16P-16K or	200
10N-10P-10K	

K-G.6.2# – SITE SPECIFIC WETLANDS PROTECTION MEASURES. (9/04)

Measures needed to protect wetlands identified on Contract Area Map or on the ground include:

In cutting units G1 and G10, wet areas have been omitted from cutting units and marked with an orange-painted boundary.

K-G.6.6.1 - CURRENT OPERATING AREAS. (10/04) Unless waived in writing by Forest Service, Contractor 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, Contractor shall keep such work on any additional disturbed areas as current as practicable.

K-G.7 - HAZARD REDUCTION AND SITE PREPARATION. (3/89) Contractor's timing of product removal, hazard reduction and site preparation shall not unnecessarily delay Forest Service slash disposal, site preparation or reforestation. Contractor 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.

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SNOW-WAY
K-G.7 HAZARD REDUCTION AND SITE PREPARATION PLAN

Limb & Lop Tops. Prior to skidding operations in portions of cutting units G1, G3, G6, G7H, G7S, G10, E3 and E8 (and in units G2 and G4 if sold), except in areas designated for whole tree yarding, contractor shall cut all exposed limbs from Included Timber greater than 7 inches dbh. Such limbing shall be done to a top diameter of approximately 4.0 inches, at which point the top will be cut from the remainder of the stem. Limbs from the tops and boles shall not extend over 2 feet in height above the ground. Buck unutilized portions into 10-12 foot lengths in cutting units G1, G3, G10, E3 and E8.

Whole Tree Yard. In cutting units G5, G8, G11, and in portions of cutting units G1, G3, G6, G7H, G7S, G10, E3 and E8 (and in units G2 and G4 if sold), within 150 feet of private property and system roads, and also within Streamside Management Zones, contractor shall whole tree yard, including the tops of all trees required to be cut to designated landings.

Fell Damaged Residuals. In cutting unit G11, contractor shall fell all species not meeting minimum diameter specifications for included timber that are damaged beyond recovery by the contractor's operations. Such trees shall be limbed to a stem diameter of approximately 4 inches, at which point the top shall be cut from the remainder of the stem. Unutilized portions shall be bucked into lengths shorter than 12 feet.

Grapple Pile Landings. Contractor shall pile all vegetative material created from logging and landing construction or within 50 feet of such landing. A landing is considered a place where any logs or products are gathered for loading. All piles shall be reasonably compact and free of soil to facilitate burning. Piles shall be of a size and location to not impair road use, and to minimize fire damage to residual trees. Piles shall not be located in ephemeral draws or swales. A grapple-equipped machinery is acceptable for landing piling, or a dozer equipped with a brush blade, upon agreement with the sale administrator.

K-G.7.1 - 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.

K-G.7.1.1 - BURNING BY CONTRACTOR. (10/79) Contractor 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.
 - Special precautions to be taken before burning.
 - Control action needed until the fire is out.

K-G.8.2.2# - PRESENTATION FOR WEIGHT SCALING. (3/07) To facilitate the requirement of G.8.2 that loads be presented so that they may be weighed in an economical and safe manner, and to aid in the accountability requirements of K-G.8.4.0 or K-G.8.4.8, Contractor, 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, Contractor 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 Contract 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. Contractor shall, within 48 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, blue, green, red, orange or yellow colored paint on the back end of at least three (3) logs of every load transported from the Contract Area.

K-G.8.2.3 - 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 Contractor 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, Contractor 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 Contractor 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.

K-G.8.4.0 - WEIGHT ACCOUNTABILITY. (10/04) Products shall be accounted for as follows:

A. Requirements Applicable to Contractor Accountability Obligations

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

B. Requirements Applicable to Woods Receipt Ticket Book

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

K-G.8.4.9 - ROUTE OF HAUL. (10/04) Within 60 days of date Forest Service executes and returns contract and as part of the annual Operating schedule, Contractor shall furnish Forest Service a map and a written general plan for hauling Included Timber from Contract 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 Contractor's Operations. The designated weight scales must be certified to be acceptable by Forest Service. The Contractor 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 Contract Area shall be transported over the designated routes of haul. Contractor shall notify Forest Service when a load of products, after leaving Contract Area, will be delayed for more than 12 hours in reaching weighing location.

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

Locations for accountability checks shall be agreed to by Contractor 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 Contractor of the methods to be used to alert truck drivers of an impending stop.

K-G.9# – STEWARDSHIP PROJECTS. (9/04) Performance of stewardship projects shall be in accordance with the following specifications.

SNOW-WAY STEWARDSHIP PROJECTS

<u>Project Number</u>	<u>Description</u>	<u>Units</u>	<u>Mandatory (M)</u> <u>Optional (O)</u>
1	Skid Trail/Road Decompaction	G3,G10	M
2	Road Decommisioning	NA	M
3	Leave Tree Protection	G6,G7S,G7H	M
4	Slashing	G1,G3,G5	M
5	Machine Slash Piling	G1,G3,G5,G11	M
6	Slashing	G8,G10,E3,E8	O
7	Machine Slash Piling	G8,G10,E3,E8	O
8	Leave Tree Protection	G2 (Optional Unit)	O
9	Noxious Weed Treatment	Road 402	O

Project Number 1 - Skid Trail/Road Decomaction:

The objective of this process is to decompact the skid trails to promote revegetation and natural drainage, and to help improve soil quality. Decomaction work shall be coordinated to be accomplished with/after the machine slash piling.

Decomaction Units:

G3	1000 ft	0.3 acres
G10	1000 ft	0.3 acres

Part of G3 is an old roadbed

This operation will consist of using the teeth of the bucket from an excavator and scarifying the specified skid trails to a depth of 6 to 14 inches, but avoid mixing unfavorable soil material (excessive gravels, cobbles, stones etc. or grey-colored glacial till) with the upper mineral soils.

Scarify non-excavated skid trails that are compacted or entrenched 3 inches or more.

Proceed from the furthest extent of the skid trail system and work out towards the landings/roads, placing woody debris on the trails as you work your way out. Contractor shall seed and fertilize all exposed areas of raw soil. Seeding and fertilizing specifications are consistent with those identified in K-G.6.0.1# - EROSION CONTROL SEEDING.

In order to prevent the spread of noxious weeds into the project area, the Contractor shall be required to clean all off-road equipment prior to entry on to the project area. This cleaning shall be in accordance with the specifications and requirements identified in K-G.3.5.1# - WASHING EQUIPMENT.

Project Number 2 - Road Decommissioning:

The intent of this project is to provide for long-term improvements in reducing erosion and sediment delivery to stream channels.

Contractor shall scarify and decommission an existing road upon completion of logging activities in G5 and the road is no longer needed. The decommissioning work would include full recontouring of the road prism the first 200 feet, removal of a culvert and recontouring the stream channel crossing with stabilization of the cut and fill slopes to natural grade, as needed. Seeding, fertilizing, and placement of woody debris would follow the decommissioning work to establish desirable vegetation and prevent the establishment and spread of noxious weeds. The length of the road to be decommissioned is **0.30** miles. See drawings attached.

Project Number 3 & 8 - Leave Tree Protection:

Slash must be removed from the base of the Ponderosa Pine and Larch leave trees with 20 inches DBH or greater. Clearance distance must be 12 feet in radius from the tree base. Do not treat leave trees in the Streamside Management Zones.

M= Mandatory O=Optional

Leave Tree Protection Units:

G6	73 ac - M
G7H	85 ac - M
G7S	92 ac - M
G2	315 ac - O

Project Numbers 4 & 6 - Slashing:

Units to be Slashed:

G1	91 ac - M
G3	16 ac - M
G5	6 ac - M
G8	8 ac - O
G10	32 ac - O
E3	117 ac - O
E8	21 ac - O

Do not slash in the Streamside Management Zones

Contractor shall slash ladder fuels, as described below, in the specified cutting units. Contractor shall complete required slash work on all units, as soon as the ground conditions and access allow. In the event that a harvest unit is only partially logged in a single season, slash work shall be done on that portion of the logged unit as outlined above. Once slashing commences, it must be completed before leaving sale area.

Slashing ladder fuels refers to the cutting down or “slashing” of the smaller trees that remain after the commercial harvest activity has occurred. The smaller trees that occur under the upper tree canopy (“overstory”) can serve as “ladder” fuels during a wildfire and therefore it is desirable to remove these trees.

Slashing specifications:

Contractor shall cut all conifer trees greater than 2 feet in height and less than 5 inches DBH. Tree stump height shall not exceed 6 inches. Hardwood trees are not to be cut.

Leave all snags for wildlife.

Conifer trees cut shall be bucked into 10 to 12 foot lengths to facilitate machine piling.

Trees that are leaning into or suspended in another tree shall be removed or placed flat on the ground and the tops and limbs disposed of. All logs left on the ground shall be bucked just enough to facilitate the log staying flat on the ground.

Project Numbers 5 & 7 - Machine Slash Piling:**Units to be Piled:**

G1	91 ac - M
G3	16 ac - M
G5	6 ac - M
G11	10 ac - M
G8	8 ac - O
G10	32 ac - O
E3	94 ac - O
E8	19 ac - O

Contractor shall complete required machine slash piling upon completion of slashing, as described in Project Number 4, above. Contractor shall complete required slash piling work on all units as soon as the ground conditions and access allows. In the event that a harvest unit is only partially logged in a single season, machine slash piling shall be done on that portion of the logged unit as outlined above.

In order to prevent the spread of noxious weeds into the sale area, the Contractor shall be required to clean all off-road equipment prior to entry on to the sale area. This cleaning shall be in accordance with the specifications and requirements identified in K-G.3.5.1# - WASHING EQUIPMENT.

Technical Specifications:

Excavator or hand piling are the preferred methods of piling. Dozers shall not be allowed.

Existing skid trails and slash mats will be used during grapple piling when possible (Units G1, G3, G8, G10, G11).

Detrimental soil disturbance caused by the fuel reduction and slash treatment activities (soil compaction and displacement) shall not exceed 15% of the treatment area.

The Contractor shall leave approximately 17-33 tons/acre of wood that is greater than 3 inches in diameter unpile in order to maintain long-term soil productivity. Graham's protocols for measuring coarse woody debris will be used.

Piles must be reasonably free of dirt to permit burning. No large stumps shall be placed in piles. Piles shall be placed no closer than 20 feet from private boundary, unit boundaries, leave islands, and along roads 402 and 2190.

Piling should avoid the creation of erosion potential and should avoid scarring of residual timber stand. Soil erosion must be minimized by providing adequate erosion control barriers. Operating on excessively wet, saturated soil will be avoided.

Skid trails that converge on system roads will be waterbarred where necessary. Logs or boulders will be placed where trails converge onto permanent Forest Service roads.

Project Number 9 - Noxious Weed Spraying (Optional):

The Contractor shall treat the roadside vegetation along Road # 402 with herbicide to remove seed-bearing noxious weeds. Treatment shall consist of spot applications that target those noxious weeds identified on the State of Idaho Noxious Weed list that occur on the driving surface or roadside. Reasonable care shall be exercised to limit application so that spraying does not contact native forbs, grasses, herbs and trees. Treatment of noxious weeds shall not occur until the machine slash piling has been completed.

Specifications applicable to Noxious Weed Spraying: Refer to K-G.2.7# and the technical spraying specifications that accompany it.

K-G.9# Drawing goes here....

K-G.9.2.9 - 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 Contractor 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 Contractor. The Contracting Officer will mail the remaining copies to:

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

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

The following requirements shall apply during the period stated in A.12 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 contract 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 Contract Area. Contractor 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 Contract Area, excluding logging truck drivers.

2. Operations employing more than 20 individuals on Contract 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 Contract 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.

K-H.2.0.1 - FIRE PRECAUTIONS (HELICOPTER). (2/05) In addition to Normal Precautions provided for in K-H.2, Contractor 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 Contract 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.

Contractor 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 Contract 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 Contractor'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 Contract Area, all aircraft pilots controlled by the Contractor shall monitor VHF frequency 122.85 MHz within 5 miles of the fire and broadcast their intentions.

K-I.6.8# – USE OF TIMBER (Option 1). (9/04) (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 Contractor 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, Contractor 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 Contractor or affiliates.

(f) Prior to delivering unprocessed Included Timber to another party, Contractor 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 Contractor and another party, Contractor shall furnish to Forest Service a copy of each such agreement. Contractor 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 Subsection, 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 Subsection, Forest Service will not be liable for any Claim submitted by Contractor relating to the termination.