

TRAFFIC CONTROL PLAN AND SPECIFICATIONS PURSUANT TO G.3.3 SAFETY

Unless otherwise agreed, the following measures are required to provide adequate warning of hazards for users of roads and trails adjacent to Contractor's Operations.

Part I. Signing and Other Warning Methods:

(a) Signs. The following signs are required when Contractor's Operations are in progress adjacent to or on Forest Service controlled roads and trails:

MINIMUM LETTER SIZE AND LEGEND	MINIMUM SIZE AND SHAPE	WHEN AND WHERE REQUIRED
1. LOGGING OPERATIONS NEXT ____ MILES (4" letters)	24" (rectangle) 36"	Min. 200 ft. outside of any continuous work areas, on roads listed in K-F.3.1# and trails listed in Part II.
2. LOGGING OPERATIONS (3" letters)	24" (diamond) 24"	To be used in conjunction with "Logging Operations Next ____ Miles" and where work area is not continuous.
3. FOR LOGGING USE ONLY (3" letters)	24" (diamond) 24"	Required where roads listed in K-F.3.1# and temporary roads intersect with K-F.3.1# roads. Install a cross ditch to discourage use when sign is covered or removed for extended periods.
4. TRUCKS (4" letters)	24" (diamond) 24"	At critical intersections on roads listed in K-F.3.1# when traffic is heavy or otherwise exceeds volumes stated in Part II below. Remove or cover when the sign is not applicable.
5. END LOGGING OPERATIONS (4" letters)	24" (rectangle) 36"	Use in conjunction with "Logging Operations Next ____ Miles" and "Logging Operations."
6. TREE FELLING AHEAD (3" letters)	24" (diamond) 24"	Required 200 feet in advance of danger area where timber is being felled adjacent to all roads, including temporary roads, and trails.
7. ROAD MACHINERY AHEAD (3" letters)	24" (diamond) 24"	Required at least 200 feet in advance of Contractor road maintenance operations on roads listed in Schedule K-F.3.1#.

TRAFFIC CONTROL PLAN AND SPECIFICATIONS - G.3.3 Safety (continued)

All signs shall meet requirements as specified in Parts I and VI of the Manual of Uniform Traffic Control Devices (MUTCD).

Sign borders and lettering shall be black. Borders are 1/2 inch wide, inset 1/2 inch from outside edge of sign. All sign backgrounds shall be orange, except signs #1 and 5 which shall be reflectorized orange.

Signs shall be installed on posts, with a 5 foot minimum ground clearance, or on temporary supports complying with MUTCD standards.

All signs are to be removed or covered when operations are interrupted for seasonal nonuse or other extended periods.

Contractor shall furnish flag personnel and advance warning signs when cable or helicopter logging above roads or trails, felling adjacent to roads or trails, where logs being bucked may roll into roads or trails, and in areas where fallout from blasting may occur. On roads listed in K-F.3.1# and temporary roads, Contractor may temporarily block the road in lieu of furnishing flag personnel.

(b) Barricades. On roads listed in K-F.3.1#, if Contractor's Operations cause the traveled way or road shoulders to be constricted overnight, or longer, by such obstructions as decked logs, parked equipment, or piled slash, Contractor shall place barricades on both sides of the encroaching obstruction to safely channel traffic around such obstructions. Barricades shall remain in place until the obstruction is removed.

Barricades shall be Type II and meet specifications in MUTCD, Part VI. Barricades must be at least 3 feet high. Rails must be at least 2 feet long. Striping shall be alternating orange and white, sloping at a 45 degree angle, and reflectorized. For rails 2 feet to 3 feet long, striping shall be 4 inches wide. For rails longer than 3 feet, striping shall be 6 inches wide. Two rails, 8-12 inches in width, must face each direction.

Barricades shall be equipped with warning lights which shall be Type A low intensity flashing and shall be maintained so as to be capable of being visible on a clear night from a distance of 3,000 feet.

(c) Other Traffic Control Methods. The posting of CB channel signs may be authorized.

On roads listed in K-F.3.1#, Contractor may be authorized to install temporary gates, barricades (except cables), or natural barriers. The devices must be installed with the necessary hazard markers, be reasonably passable by Forest Service, and be removed prior to acceptance of the subdivision being served by the road.

TRAFFIC CONTROL PLAN AND SPECIFICATIONS - G.3.3 SAFETY (continued)

Part II. Specific Requirements:

There are no additional requirements.

Contractor and Forest Service agree to the above stated requirements of the Traffic Control Plan:

Name

Name

Title

Title

Date

Date

PRESCRIPTION PURSUANT TO K-C.3.5.5# - DESIGNATION BY PRESCRIPTION (05/2015)

End Results - To enhance the development of late successional forest characteristics by maintaining or increasing the growth of the largest trees on a variable spacing, growing large limbs in the lower crown of some trees, getting enough light to the ground to begin establishing an understory of shade tolerant species, creating some gaps where a mixture of species can regenerate, and maintaining some trees that already exhibit specific wildlife characteristics.

Table 1 - Prescription Summary

Subdivision Number	Designated Cut Tree Species	Average Leave Trees per Acre	Acceptable Range of Leave Trees Per Acre	Average Spacing Between Leave Trees (Feet) ^{1/}	Acceptable Range in Spacing Between Leave Trees (Feet) ^{1/}
58A, 58C, 58D, 58F, 58G, 60V, 60X, & 60Y	Douglas-fir	90	89 - 91	22'	11' - 33' ^{2/}
58B, 58E, 58H, 60U, 60W, & 60Z	Douglas-fir	50	49 - 51	29'	15' - 45' ^{2/}

^{1/} Distances are measured in horizontal distance (corrected for slope), tree face to tree face outside bark at DBH^{3/}. The face of the tree is defined as the portion of the tree's bole that is closest to the bole of the tree that is being measured.

^{2/} The Acceptable Range in Spacing Between Leave Trees applies to those portions of the Subdivision outside of gaps and No Treatment Areas (see Prescription Criteria #1, #2 and #3).

^{3/} Diameter at breast height (DBH) is measured at 4.5 feet above the natural forest floor on the high or uphill side of the tree at a right angle to the lean of the tree. The diameter of a tree with swelling, branches, or abnormalities at 4.5 feet will be taken above 4.5 feet at a point where the diameter is no longer affected by the condition.

Use the Average Spacing Between Leave Trees (Feet) figures listed in Table 1 as a "general guideline" in achieving the desired number of Average Leave Trees per Acre. Actual leave tree spacing can vary by as much as 50% as shown in Acceptable Range in Spacing Between Leave Trees (Feet) column above to best achieve the specific prescription criteria explained below.

Prescription Objectives:

The objective for Subdivisions 58A, 58C, 58D, 58F, 58G, 58R, 60V, 60X, and 60Y is to improve windfirmness so that more variability can be developed in the next harvest entry. Subdivisions 58B, 58E, 58H, 60U, 60W, and 60Z were previously thinned and have a lower risk of windthrow now so the focus is on keeping the biggest, healthiest, fastest-growing trees; creating gaps; and increasing the variable spacing throughout the subdivision. The following Prescription Criteria were developed to guide achievement of these objectives:

Prescription Criteria:

1. Create one-acre gaps in Subdivisions 58B, 58E, and 60Z by cutting all Designated Cut Species meeting the minimum specifications in A.2 **within 118 feet of a tree marked with double bands of blue tracer paint at breast height and two blue tracer paint marks below stump height.** The gap center tree is Included Timber and will have **at least a 3 foot high stump** left to aid in sale administration harvest inspection. "HS" (High Stump) is painted on each stump with blue tracer paint between 3 feet and ground level.
2. Create half-acre gaps in Subdivisions 58B, 58E, 58H, 60W, and 60Z by cutting all Designated Cut Species meeting the minimum specifications in A.2 **within 83 feet of a tree marked with a single band of blue tracer paint at breast height and a single blue tracer paint mark below stump height.** The gap center tree is Included Timber and will have **at least a 3 foot high stump** left to aid in sale administration harvest inspection. "HS" (High Stump) is painted on each stump with blue tracer paint between 3 feet and ground level.
3. Subdivisions 58B, 58E, 60U, 60W, and 60Z contain No Treatment Areas that are either one acre or one half acre circles. Both one-acre and half-acre No Treatment Area boundaries are designated with blue boundary tags, blue flagging, and **white tracer paint at or above breast height and below stump height.** No Treatment Areas are no cut areas, except for trees that may be within approved skyline corridors and skid trails.
4. Outside of the gap and No Treatment Areas described in Criteria 1, 2 and 3, leave the average number of leave trees shown in Table 1. Leave trees should be selected from the largest, healthiest, live Designated Cut Tree Species meeting the minimum specifications in A.2. Accomplish this by varying the leave tree spacing by as much as 50%, as shown in the Acceptable Range in Spacing Between Trees (Feet) column of Table 1. Clumping of the larger codominant trees is desirable, but widen the spacing elsewhere to ensure that the average number of leave trees per acre (TPA) is maintained. Gap areas will not be included in the TPA count.
5. Whenever possible, select leave trees that are rooted directly in the soil, rather than those growing on old stumps or nurse logs.
6. Include as leave trees up to 5 "wildlife trees" per acre, recruited from the largest available trees with one or more of the following characteristics: multiple or broken tops, mistletoe clumps, cavities, large branches, or intact nests. If trees with these characteristics do not exist, substitute live trees with crowns below the surrounding canopy and within ten feet of existing dominant or codominant trees. These trees will count toward the average number of leave trees per acre.
7. Do not cut trees marked with **three (3) orange tracer paint slashes** at breast height around the bole and an orange tracer paint mark below stump height. These orange marked trees will be counted as leave trees no matter what their spacing is, so widen the spacing elsewhere (within the limits shown in the Acceptable Range in Spacing Between Trees (Feet) column of Table 1) if needed to ensure that the average number of leave trees per acre is maintained.
8. Outside of approved yarding corridors and skid trails, all western hemlock, Sitka spruce, and western red cedar shall be left and will be counted as leave trees if their DBH^{3/} is 12.0 inches or greater.

9. To facilitate harvest operations, all tree species are designated cut trees within the width of approved yarding corridors, **except those trees marked with orange paint as specified in Criteria 7**. Trees removed for corridors and skid trails will not be counted toward meeting the required number of Average Leave Trees per Acre. The area occupied by corridors and skid trails will be included in the plots measuring leave trees, so tighten the spacing elsewhere to ensure that the average number of leave trees per acre (TPA) is maintained.

Forest Service Inspections

The leave tree and cut tree selection process will be closely monitored by the Contract Administrator who will be completing inspection plots and providing feedback to the Contractor. This monitoring will take place regularly during the felling operation.

Table 2 provides the average desired leave trees per 1/10th acre plot.

Table 2 - Inspection Plot Summary

Subdivision Number	Average Leave Trees per Acre	Average Leave Trees per 1/10 th Acre Plot
58A, 58C, 58D, 58F, 58G, 60V, 60X, 60Y	90	9.0
58B, 58E, 58H, 60U, 60W, 60Z	50	5.0

REMOVAL SCHEDULE PURSUANT TO K-D.4.7# - ABNORMAL DELAY. (5/2005)

REMOVAL SCHEDULE

<u>Included Timber</u>	<u>Time Limits</u>
All.	180 days after felling is started.
All timber decked during construction clearing.	180 days after felling on each Specified Road constructed by Contractor is initiated.
Timber decked during road construction.	180 days after Forest Service authorizes Contractor to use roads pursuant to F.2.

PLANS AND/OR CRITERIA PURSUANT TO K-F.1.0.1# - TEMPORARY ROAD AND LANDING
CONSTRUCTION (OPTION 1) (06/2010)

No plans or criteria are included. Contractor is required to supply plans and/or criteria to the Forest Service for approval prior to beginning construction work.

Approximately 1,350 cubic yards of rock will be needed. Forest Service sources may be available by agreement, however crushing is required and at Contractor's expense, upon request. All materials incorporated into work from Contractor provided sources will be "weed free". The Contracting Officer may request written confirmation of methods utilized to insure weed-free status.

TABLE A PURSUANT TO K-F.1.2# - USE OF ROADS BY CONTRACTOR. (9/2004)

Restricted Road List

Road Number	Road Name	Termini		Map Legend	Description of Restrictions
		From	To		
All Roads listed in K-F.3.1#, and all Temporary Roads.				R	Road use for vehicles over 26,000 pounds GVWR shall be suspended when rainfall exceeds 1.0 inch in 24 hours. This suspension shall be for 24 hours after the 1.0 inch rain event. Contractor shall monitor rainfall accumulation from a Remote Automated Weather Station (RAWS) location to be agreed upon at the prework meeting.
2282		0.00	3.85	R	<u>Bridges - Heavy Haul Limited.</u> Overload permits are required for all Forest Service bridges. For loads exceeding eighty thousand pounds (80,000 lb.) gross vehicle weight (GVW), the Contractor shall submit a Forest Service Bridge Use Application and Permit a minimum of 60 days prior to use. Bridges located on roads used to access this sale are: NFSR 2282 - Kitten Creek Bridge at mile post 0.0. The load, weight, height, length, or width limitations of vehicles on National Forest roads shall be in accordance with all State, County, and Local laws and ordinances, unless otherwise approved in writing by special-use authorization.
1477		0.00	0.38	R	Dry season haul.
1428	South Lake	0.00	1.09	U	Hauling prohibited prior to reconstruction.

Title and Date of Governing Road Rules Document:

Siuslaw National Forest
Commercial Road Rules

April 23, 2012
Effective Date

TABLE PURSUANT TO K-F.3.1# - ROAD MAINTENANCE REQUIREMENTS. (9/2004)

Contract Road Maintenance Requirements Summary

Road	Termini		Miles	Applicable Prehaul Road Maintenance Specifications											
	From	To		T-811	T-813	T-815	T-831	T-832	T-834	T-835	T-836	T-839	T-842	T-851	T-854
1400	1428	Unit 58A Landing T	0.65	P	P		P	P	P		P		P	P	P
1400117	1400	Unit 58B Landing I	0.17	P	P		P	P	P			P	P	P	P
1428	1400	2210	1.09	P	P		P	P	P		P		P	P	P
1428134	1428	Unit 58E boundary	0.25	P	P		P	P	P			P	P	P	P
1428135	1428	Unit 58B Landing U	0.23	P	P		P	P	P			P	P	P	P
1428136	1428	Unit 58E Landing N	0.10	P	P		P	P	P			P	P	P	P
1477	1400	Unit 58A Landing A	0.38	P	P		P	P	P			P	P	P	P
2210	1428	2234	4.90	P	P		P	P	P		P		P	P	P
2282	2210	Hwy 22	5.34	P	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 During Haul Road Maintenance Specifications											
	From	To		T-811	T-813	T-815	T-831	T-832	T-834	T-835	T-836	T-839	T-842	T-851	T-854
1400	1428	Unit 58A Landing T	0.65	P	P		P	P	P		P		P	P	P
1400117	1400	Unit 58B Landing I	0.17	P	P		P	P	P			P	P	P	P
1428	1400	2210	1.09	P	P		P	P	P		P		P	P	P
1428134	1428	Unit 58E boundary	0.25	P	P		P	P	P			P	P	P	P
1428135	1428	Unit 58B Landing U	0.23	P	P		P	P	P			P	P	P	P
1428136	1428	Unit 58E Landing N	0.10	P	P		P	P	P			P	P	P	P
1477	1400	Unit 58A Landing A	0.38	P	P		P	P	P			P	P	P	P
2210	1428	2234	4.90	P	P		P	P	P		P		P	P	P
2282	2210	Hwy 22	5.34	P	P	P	P	P	P		P		P	P	P

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

TABLE PURSUANT TO K-F.3.1# - ROAD MAINTENANCE REQUIREMENTS. (9/2004)

Contract Road Maintenance Requirements Summary

Road	Termini		Miles	Applicable Post Haul Road Maintenance Specifications											
	From	To		T-811	T-813	T-815	T-831	T-832	T-834	T-835	T-836	T-839	T-842	T-851	T-854
1400	1428	Unit 58A Landing T	0.65	P	P		P	P	P		P		P	P	P
1400117	1400	Unit 58B Landing I	0.17	P	P		P	P	P			P	P	P	P
1428	1400	2210	1.09	P	P		P	P	P		P		P	P	P
1428134	1428	Unit 58E boundary	0.25	P	P		P	P	P			P	P	P	P
1428135	1428	Unit 58B Landing U	0.23	P	P		P	P	P			P	P	P	P
1428136	1428	Unit 58E Landing N	0.10	P	P		P	P	P			P	P	P	P
1477	1400	Unit 58A Landing A	0.38	P	P		P	P	P			P	P	P	P
2210	1428	2234	4.90	P	P		P	P	P		P		P	P	P
2282	2210	Hwy 22	5.34	P	P	P	P	P	P		P		P	P	P

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

Description of work required by the above listed T-specs is shown in the following ROAD MAINTENANCE REQUIREMENTS SPECIFICATION table, and included in the timber sale contract.

ROAD MAINTENANCE REQUIREMENTS SPECIFICATION TABLE PURSUANT TO
K-F.3.1# - ROAD MAINTENANCE REQUIREMENTS (9/2004)

1 Road No. and Termini	2 Special Project Specifi- cation	3 Travel Way			4 Brush And Log Out	5 Surfacing	6 Dust Abatement			7 Seasonal Mainte- nance	8 Snow Removal	9 Post Haul	
		Width	X Slope	Comp			Product	Applic Rate	Width			Block	Treat
1400		EX	AI	A	4 ft R&L	70 CY gradation C							
1400117	T-835-F12-1	EX	AI	A	4 ft R&L	40 CY gradation Q				W		P	P
1428		EX	AI	A	4 ft R&L	60 CY gradation C							
1428134	T-835-F12-1	EX	AI	A	4 ft R&L	20 CY gradation Q				W		P	P
1428135	T-835-F12-1	EX	AI	A	4 ft R&L	20 CY gradation Q				W		P	P
1428136	T-835-F12-1	EX	AI	A	4 ft R&L	10 CY gradation Q				W		P	P
1477	T-835-F12-1	EX	AI	A	4 ft R&L	20 CY gradation Q				W		P	P
2210		EX	AI	A	4 ft R&L	250 CY gradation C							
2282	T-815-F1	EX	AI	A	4 ft R&L	270 CY gradation C							
Water bars*						90 CY gradation Q							

* Waterbar rock is included to patch over bladed out existing water bars

1/ All materials incorporated into work from Contractor provided sources will be "weed free". The Contracting Officer may request written confirmation of methods utilized to insure weed-free status.

ROAD MAINTENANCE REQUIREMENTS SPECIFICATION CODES TABLE PURSUANT TO
K-F.3.1# - ROAD MAINTENANCE REQUIREMENTS (9/2004)

Column No.	Heading	Entry	Explanation
	Any	Blank	Except as otherwise described, no entry indicates Contractor is not authorized or required to perform the work item(s).
	Any	RC	This work requirement applies only when haul of sale related construction materials occurs.
2	Special Project Specification	Number	Entry indicates Special Project Specification which applies.
3	Travel Way	EX	Contractor shall maintain the traveled way to the width existing upon entry, or at the completion of Specified Road work.
		Numbers	Contractor shall maintain the traveled way to the standard width indicated by the entry, plus curve widening, in accordance with Section T-811. If required, the road template shall be shaped to this width and to the designated cross slope before haul and during recurring maintenance.
		IS, C, OS, F, or AI	Cross slopes are designated as: IS (Inslope), C (Crown), OS (Outslope), F (Flat), AI (As Is).
		A or B	If compaction is required.
4	Brush and Log Out	Numeric & R and or L	Contractor shall remove brush for specified width on either or both the right (R) side or left (L) side of road.
		As Staked	Limits of brushing are as staked or marked in the field.
		OPT	Contractor may use hand or mechanical means of brushing.
		H	Only hand brushing may be used.

ROAD MAINTENANCE REQUIREMENTS SPECIFICATION CODES TABLE PURSUANT TO
K-F.3.1# - ROAD MAINTENANCE REQUIREMENTS (9/2004)

Column No.	Heading	Entry	Explanation
5	Surfacing	Aggregate Grading	Contractor shall place surfacing on roads listed according to the grading indicated.
6	Dust abatement	OPT	Product selection is Contractor's choice from those listed in Section T-812.
		Product Abbr.	Unless otherwise agreed, Contractor is restricted to product listed corresponding to the abbreviation shown in Section T-812; (i.e., LigS = Lignon Sulfonate) Application rates are estimated amounts.
		EX	Contractor shall abate dust on the existing width
		Numbers	Contractor shall abate dust to the width indicated by entry.
7	Seasonal Maintenance	W	Waterbars and/or crossditching shall be required prior to expected seasonal precipitation.
		B	Entrance barriers shall be installed by Contractor prior to nonuse periods.
8	Snow Removal	TS	Snowplowing authorized for Contractor's Operations without recreation access being provided per Section T-803 requirements.
		JU	Snowplowing authorized, but must provide for recreation joint use per Section T-803 requirements.
		Blank	Snowplowing is not authorized. Forest Service may authorize plowing by permit when not in conflict with other uses.
9	Post Haul	P	P denotes that work is Contractor's Responsibility to perform.

SCHEDULE PURSUANT TO K-G.3.1.5# - PROJECT OPERATION SCHEDULE (05/2005)

Subdivision	Operating Conditions	Purpose
All Roads listed in K-F.3.1#	All ditch clean-out with ground disturbing equipment, such as an excavator, shall be restricted to July 1 through September 15.	<u>2/</u>
All	Installing and removing in-stream culverts shall be restricted to July 1 through September 15.	<u>2/</u>
1428	Road Reconstruction shall be restricted to July 1 through October 15.	<u>2/</u>
Temp roads and landings	Temp road and landing construction shall be restricted to August 6 through October 15 and shall be restricted to two hours after sunrise to two hours before sunset between August 6 and September 15.	<u>1/</u> <u>2/</u>
All	Ground based felling and yarding is restricted to June 15 through October 15.	<u>2/</u>
All	All road brushing on system roads not subject to T-836, T-838, or T-839 in K-F.3.1# shall be restricted to June 1 through September 15.	<u>3/</u>
All	Daily Timing Restrictions: All operations that are within 110 yards of mature trees or old growth forest and involve use of heavy equipment or power-tools (such as chainsaws) shall be restricted to between August 6 and September 15 to two hours after sunrise to two hours before sunset. Date Restrictions: All operations that are within 110 yards of mature trees or old growth forest and involve use of heavy equipment or power-tools (such as chainsaws) shall be restricted to August 6 through March 31.	<u>1/</u> <u>1/</u>
1400117	All road maintenance activities shall be restricted to August 6 through March 31 and two hours after sunrise to two hours before sunset between August 6 and September 15	<u>1/</u>
58R, 60U, 60V, 60W, 60X, 60Y and 60Z	All operations shall be restricted while helicopter landings identified on the Contract Area Map (1 of 2) are in use.	<u>4/</u>

1/ To minimize disturbance to Marbled Murrelets during the nesting season that are within 110 yards of mature or old growth forest.

2/ To minimize streamcourse sedimentation due to wet weather operations.

3/ To maximize the effectiveness of brushing along the haul route.

4/ To minimize the hazards of adjacent helicopter operations.

TABLE PURSUANT TO K-G.4.1# - SPECIFIC REQUIREMENTS (05/2005)

FELLING METHODS

Trees shall be felled away from paved roads, private property, Streamcourses, buffers, leave areas, and protected improvements, and to the lead of cable corridors and ground-based skid roads. Any tree that falls in a Streamcourse or a buffer shall be left in place, unless otherwise approved by the Forest Service for removal. Trees shall be felled away from Leave Trees marked with three diagonal slash marks with orange tracer paint.

SUBDIVISIONS

All

FELLING EQUIPMENT

Mechanical felling machinery may be used on portions of subdivisions where ground based yarding is part of your Technical Proposal, and accepted by the Forest Service.

SUBDIVISIONS

All

TABLE PURSUANT TO K-G.4.2# - YARDING/SKIDDING REQUIREMENTS (05/2005)

YARDING/SKIDDING REQUIREMENTS	SUBDIVISIONS
<p>If included in your Technical Proposal and accepted by the Forest Service, a skyline system must be capable of:</p> <ul style="list-style-type: none"> • keeping one end of the log suspended during inhaul (logs may drag on the ground within 100 feet slope distance of tailholds and 50 feet slope distance of landings). • lateral yarding up to 75 feet. • keeping the entire length of logs fully suspended above the ground 50 feet each side of protected Streamcourses during inhaul when yarding across protected Streamcourses. <p>Skyline corridors/cableways:</p> <ul style="list-style-type: none"> • maximum width of 12 feet. • minimum spacing of 120 feet at the far end. • no more than 20 percent of the canopy would be removed in any given 1,000-foot reach of stream when passing through riparian buffers. 	<p>All</p>
<p>No logging activity, including tailholds, guyline anchors or mobile tailholds, are allowed in the Inventoried Roadless Area.</p>	<p>All</p>
<p>If included in your Technical Proposal and accepted by the Forest Service, a ground-base machine must be capable of keeping one end of the log suspended during skidding.</p> <p>Skid trails:</p> <ul style="list-style-type: none"> • maximum width of 15 feet • average trail spacing of 100 feet <p>The ground-base machine will not be allowed on slopes greater than 30 percent. Where practical, machine shall travel on slash.</p>	<p>All</p>
<p>The tops shall be severed or broken off from at least 20 percent of the felled trees prior to yarding. These severed or broken tops shall be left on site (not yarded or removed) scattered over 80 percent of the cutting unit. A top is defined as that portion of the tree 6 inches DIB or smaller on the large end.</p>	<p>All</p>
<p>Transport and support vehicles using diesel or gasoline shall be refueled at landings or service areas located at least 150 feet away from stream channels.</p>	<p>All</p>
<p>No Treatment Areas, as shown on Contract Area Map, are designated within subdivisions. Skyline corridors and skid trails may be approved through skips to facilitate logging operations.</p>	<p>58B, 58E, 60U, 60W, 60Z</p>

APPLICATION SCHEDULE PURSUANT TO K-G.6.0# - EROSION CONTROL AND SOIL TREATMENT BY CONTRACTOR (04/2014)

SUBDIVISION OR SUBDIVISION NUMBER	AREAS	SEED		FERTILIZER		MULCH	
	A) SKID TRAILS B) FIRELINES C) TEMP. ROADS D) LANDINGS E) OTHER	APPLICATION		APPLICATION		APPLICATION	
		SPECIES MIXTURE	LBS/AC	TYPE	LBS/AC	TYPE	LBS/AC
All	A, C, D	<u>1</u> /	22	None		None	

1/ Grass seed will be provided by the Forest Service.

A co-op deposit of \$0.02/Ton will be collected from the Contractor to cover the cost of culturing, growing, and harvesting seed for use in future contracts.

SPECIFICATIONS PURSUANT TO K-G.7.4.2# - SLASH TREATMENTS REQUIREMENTS
(Option 2) (06/2008)

CONSTRUCTION SLASH. Unless otherwise agreed, all slash as defined in K-G.7 - Slash Disposal, shall be treated.

SPECIFIC DISPOSAL METHOD.

Unless otherwise agreed, Contractor shall pile or scatter all slash as defined in C6.7. Scattering of construction slash shall be outside the road clearing limits without damaging trees. All logs shall be limbed. Logs and stumps shall be placed away from trees, positioned so they will not roll, and not be placed on top of one another.

In no event will slash be buried under temporary road or landing embankments.

AREA SUBJECT TO THIS PROVISION

1. All landings and the area within 20 feet of the perimeter of landings.

METHOD OF TREATMENT

Unless otherwise agreed, all slash as defined in K-G.7 - Slash Disposal (06/2008) shall be treated as per Method A or Method B below.

Method A: Machine Piling - Slash less than 10 feet long shall be placed in a compact, dirt free, uniform pile for later disposal by the Forest Service. The pieces shall be placed so that shifting or rolling will not occur and so that no material will extend over the edge of disposal areas. Piles shall be no higher than 15 feet. Piles shall be covered as described below.

Method B: Scattering - Slash shall be scattered across landings, temporary roads, skid trails, yarding corridors, or other openings in the immediate area, as designated by Forest Service Sale Administrator. Scattering shall be accomplished in a manner to avoid windrows and shall not exceed a depth of 1 foot from natural forest floor or road/landing surface.

LOCATION OF PILES

Piles as defined in Method a above, shall be located in the center of openings near or on the landings and as far as possible away from residual trees. Unless otherwise agreed, the base of the piles shall be no closer than 10 feet from standing trees. Excess slash which cannot be piled as per these specifications, will be required to be hauled to a disposal site as designated by the Forest Service.

TIMING OF PILES

Piling of slash shall be done concurrent with yarding on each landing, or within 10 days of completion of yarding on each landing.

COVERING PILES

During the construction of each pile, a 100 sq ft (10'x10') piece of 4 ml polyethylene plastic shall be placed on top of the pile when the pile is 2/3 of the way built. The remaining 1/3 of the slash shall be placed on top of the plastic. Kraft-waterproof paper or other similar product may be substituted for the 4 ml plastic.

SPECIFICATIONS PURSUANT TO K-G.7.4.2# - SLASH TREATMENTS REQUIREMENTS
(Option 2) (06/2008)

SCATTER SLASH ALONG ROADS

1. SLASH SPECIFICATION. Unless otherwise agreed, all logging slash more than 2 feet long and less than 3 inches in diameter shall be scattered when in concentrations exceeding 1 foot depth above the natural forest floor and 25 square feet in surface area. Material which is at least 3 inches in diameter on the small end must be limbed and bucked at 3 inches in diameter with the resulting slash meeting the above specification requiring scattering.
2. AREA SUBJECT TO THIS PROVISION. Slash inside Cutting Units 58A, 58B, 58E, 58F, and 58H that is within 25 feet slope distance of roads 1400, 1428 and 2210 meeting above specification shall be scattered, away from the road, within the cutting unit, and outside of this area.
3. METHOD OF TREATMENT. Unless otherwise agreed, slash meeting the above slash specification shall be hand or machine scattered or incorporated into the landing piles. Any machine used for scattering shall remain on the running surface of the road at all times. Slash shall not be windrowed or piled (unless added to the landing pile). The scattered slash shall be no more than one-foot in depth, measured from mineral soil.
4. TIMING OF PILES. Scattering of slash shall be done concurrent with yarding in the unit, or within 10 days of completion of yarding.

STEWARDSHIP PROJECTS PURSUANT TO K-G.9# - STEWARDSHIP PROJECTS (09/2004)

- Project #001: Road Brushing - see attached project description and specifications.
- Project #002: Culvert Cleaning - see attached project description and specifications.
- Project #003: Roadway Conditioning - see attached project description and specifications.
- Project #004: Aggregate Placement - see attached project description and specifications.
- Project #005: Scalp, Plant, and Protect Bareroot Seedlings in Gaps and Underplanting Areas - see attached project description and specifications.
- Project #006: Scalp, Plant, and Protect Container Seedlings in Gaps and Underplanting Areas - see attached project description and specifications.
- Project #007: Down Wood Creation - see attached project description and specifications.
- Project #008: Small Tree Topping - see attached project description and specifications.