

PLANS AND CRITERIA PURSUANT TO C5.1# (OPTION 1) -
TEMPORARY ROAD AND LANDING CONSTRUCTION
(07/2001)

1. The Forest Service and Purchaser shall agree to temporary road locations and clearing limits prior to construction.
2. Temporary roads shall be constructed to a minimum width to accommodate logging equipment and shall be located to minimize the number of trees cut while minimizing the extent of ground impacted by construction.
3. All trees to be cut by the purchaser shall be identified and designated for cutting by the Forest Service prior to cutting.
4. On native running surfaces, hauling shall be restricted to when dry conditions exist. Restricted from October 15 thru May 15.
5. Clearing and grubbing debris shall be scattered in areas designated on the ground by the Forest Service.
6. Straw bales or other agreed upon erosion control devices shall be placed in ditches, as needed, to prevent sediment from entering stream courses. All straw bales will be certified weed free.
7. At the end of each season and/or when purchaser is done with the temporary road and/or termination of contract, purchaser shall install drivable drain dips and water bars and close the road to normal vehicular traffic, B6.63.
8. In accordance with B6.631, Temporary Roads to remain open, to facilitate short-term access, purchaser agrees to leave temporary road open as directed by Forest Service.
9. Methods of closure shall be determined based on existing terrain conditions and needs at the time of closure.
10. Reopening of temporary roads may occur between May 31 and October 15.

PLANS AND CRITERIA PURSUANT TO C5.1# (OPTION 1) -
TEMPORARY ROAD AND LANDING CONSTRUCTION
(07/2001)
(Continued)

11. Other erosion control measures, to stabilize the road and prevent erosion on slopes over 8%, may require a structure approximately every 100 feet. Seed and fertilizer for the road will be in accordance with C6.6.
12. Culverts shall be placed in all stream courses, along/across temporary roads. Culverts shall be corrugated metal pipe and shall not be less than 18 inches diameter.
13. Culvert installation in live streams shall take place between July 1 and August 15, C6.315#. During culvert installation in live streams, the streams will be temporarily diverted around the site and biodegradable geotextile cloth will be placed downstream from the site to minimize transport of sediment, unless other methods are agreed to in writing with the Forest Service.
14. Culverts shall not be left in place after purchasers operations are completed.
15. Landings and helicopter service landings shall be designed in accordance to B6.422, shall be as small as operationally feasible, and shall be agreed to in writing by the Forest Service.
16. All landings will be designed to provide adequate drainage to protect the adjacent resources.
17. Areas to be covered with fill material shall be cleared of logs and cull woody material over 4 inches in diameter and/or 8 feet long.
18. Where side slopes exceed 45 percent, waste material shall be end-hauled to locations authorized in writing by the Forest Service.
19. Placement of rock ballast shall not take place unless mutually agreed to in writing by the Forest Service.
20. Rock ballast shall not exceed 4 inches in depth, unless mutually agreed to in writing by the Forest Service. Landing cut and fill slopes shall be left at no steeper than 1 ½ to 1 upon completion of sale operations.
21. Any culverts replaced shall be removed and disposed of by Purchaser off of National Forest lands.

C5.12# – USE OF ROADS BY PURCHASER. (6/99) Purchaser’s use of existing roads identified on Sale Area Map by the following codes is prohibited or subject to restrictive limitations, unless agreed otherwise:

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

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

Restricted Road List

Road Number	Road Name	Termini		Map Legend	Description of Restrictions
		From	To		
2600705 ^{1/}	McK Dump Road	Hwy 126	2633700	R	^{1/} Haul is not allowed evenings or weekends, or during long holiday periods (Memorial Day, 4 th of July and Labor Day), unless waived by Contracting Officer.
2600250 ^{2/}		2600705	Unit 116	R, A	
2600252* ^{4/}		2600705	Unit 112	U	
2600254*		2600705	Unit 130		
2600261*		2600705	Unit 290		
2600263*		2600705	Unit 120		
2633700	Dry Gulch	2633701	Unit 300	R	^{2/} Haul is restricted during the posted hours of the McKenzie Dump operation, which is currently Monday and Thursday. If these days of operation change then the restriction will be adjusted.
2633703 ^{3/}	Glen Creek	2633700	Heli landings	U	
					^{2/} Public Use shall be restricted on the days that are not designated for the McKenzie Dump operation, which is currently Monday and Thursday. If these days of operation change then the restriction will be adjusted.
					Roads marked with asterisk (*) have limited strength and are likely to be damaged if used when adverse conditions exist in the roadbeds.
					^{3/} U-Road use is unsuitable for hauling prior to all prehaul Road Maintenance Requirements in C5.31# being completed and accepted by the CO.
					^{4/} SMA, reference C6.24# prior to road use.

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

Restricted Road List

Road Number	Road Name	Termini		Map Legend	Description of Restrictions
		From	To		

Title and Date of Governing Road Rules Document:

Willamette National Forest Road
Rules

January 1992

Commercial Road Rules

Effective Date

C5.13# – ROAD COMPLETION DATE. (4/04) Construction of Specified Roads shall be completed no later than Oct. 31, 2013; except for earlier construction completion dates for roads listed below:

Road Number	Road Name	Station		Completion Date
		From	To	

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

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

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

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

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

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

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

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

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

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

Sale Name:

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

Road Number	Road Name	Station		Completion Date
		From	To	

C5.221# – MATERIAL SOURCES. (4/04)

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

C5.221# – MATERIAL SOURCES. (4/04) Sources of local materials are designated on Plans and Sale Area Map. Forest Service assumes responsibility for the quality and quantity of material in designated sources. Purchaser shall determine the equipment and work required to produce the specified product, including the selection of acceptable material that is reasonably available in the source that meets specifications. The designation of source includes the rights of Purchaser to use certain area(s) for plant site, stockpiles, and haul roads.

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

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

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

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

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

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

When material is appraised from non-National Forest designated sources, owner charges for the material in terms of unit cost for royalties, purchase of raw materials, or finished products shall be as follows until 1/_____:

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. Purchaser shall make arrangements with owner(s) for measurement and payment for royalties, purchase of raw materials, or finished products, as shown above.

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

Materials shall be stored to assure the preservation of their quality and fitness for the work. Stored materials shall be located to facilitate their prompt inspection. Sites on Forest Service administered land, approved by Forest Service, may be used for storage purposes and for the

placing of Purchaser's plant equipment. All storage sites provided by Forest Service shall be restored at Purchaser's expense. Purchaser 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.

ROAD MAINTENANCE REQUIREMENTS SPECIFICATION TABLE PURSUANT TO
C5.31# - ROAD MAINTENANCE REQUIREMENTS (7/01)

1	2	3			4	5	6			7	8	9	
Sale Name: Road No. and Termini	Golden Project Specifi- cation	Travel Way			Brushing And Log Out	Surfacing	Dust Abatement			Seasonal Mainte- nance	Snow Removal	Post Haul	
		Width	Cross Slope	Comp			Product	Applic Rate	Width			Block	Treat
2600705 Hwy 126 To 2633700		EX	AI	B	3 Ft. LEFT & RIGHT, OPT		Water	0.5 Gal per Sq.Yd.	EX		JU		PR
2600250 2600705 To Unit 116		EX	AI	B	6 Ft. LEFT & RIGHT, OPT								PR
2600252 2600705 To Unit 112		EX	AI	A	1 Ft. LEFT & RIGHT, OPT						TS		PR
2600254 2600705 To Unit 130		EX	AI	A	1 Ft. LEFT & RIGHT, OPT						TS		PR
2600261 2600705 To Unit 290		EX	AI	B	3 Ft. LEFT & RIGHT, OPT						JU		PR
2600263 2600705 To Unit 290		EX	AI	A	1 Ft. LEFT & RIGHT, OPT						TS		PR

ROAD MAINTENANCE REQUIREMENTS SPECIFICATION TABLE PURSUANT TO
C5.31# - ROAD MAINTENANCE REQUIREMENTS (7/01)

1	2	3			4	5	6			7	8	9	
Road No. and Termini	Special Project Specifi- cation	Travel Way			Brushing And Log Out	Surfacing	Dust Abatement			Seasonal Mainte- nance	Snow Removal	Post Haul	
		Width	Cross Slope	Comp			Product	Applic Rate	Width			Block	Treat
<u>2633700</u> 2633701 To Unit 300		EX	AI	B	3 Ft. LEFT & RIGHT, OPT		Water	0.5 Gal per Sq.Yd.	EX		JU		PR
<u>2633703</u> 2600705 to Heli Land		EX	AI	B	3 Ft. LEFT & RIGHT, OPT	100 CY Grading T, as staked by FS					TS		PR

ROAD MAINTENANCE REQUIREMENTS SPECIFICATION CODES TABLE PURSUANT TO
C5.31# - ROAD MAINTENANCE REQUIREMENTS (7/01)

Column No.	Heading	Entry	Explanation
	Any	Blank	Except as otherwise described, no entry indicates Purchaser 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	Purchaser shall maintain the traveled way to the width existing upon entry, or at the completion of Specified Road work.
		Numbers	Purchaser 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	Purchaser 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	Purchaser may use hand or mechanical means of brushing.
		H	Only hand brushing may be used.

ROAD MAINTENANCE REQUIREMENTS SPECIFICATION CODES TABLE PURSUANT TO
C5.31# - ROAD MAINTENANCE REQUIREMENTS (7/01)

Column No.	Heading	Entry	Explanation
5	Surfacing	Aggregate Grading	Purchaser shall place surfacing on roads listed according to the grading indicated.
6	Dust Abatement	OPT	Product selection is Purchaser's choice from those listed in Section T-812.
		Product Abbr.	Unless otherwise agreed, Purchaser 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	Purchaser shall abate dust on the existing width
		Numbers	Purchaser 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 Purchaser prior to nonuse periods.
8	Snow Removal	TS	Snowplowing authorized for Purchaser'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	PR	PR denotes that work is Purchaser's Responsibility to perform.

TRAFFIC CONTROL PLAN AND SPECIFICATIONS PURSUANT TO B6.33 SAFETY

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

Part I. Signing and Other Warning Methods:

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

<u>MINIMUM LETTER SIZE AND LEGEND</u>	<u>MINIMUM SIZE AND SHAPE</u>	<u>WHEN AND WHERE REQUIRED</u>
1. LOGGING OPERATIONS NEXT <> MILES (4" letters)	24" (rectangle) 36"	Min. 100 ft. outside of any continuous work areas, on roads listed in C5.31# 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 C5.31# and temporary roads intersect with C5.31# 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 C5.31# 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 Purchaser road maintenance operations on roads listed in Schedule C5.31#.

TRAFFIC CONTROL PLAN AND SPECIFICATIONS – B6.33 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.

Purchaser 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 C5.31# and temporary roads, Purchaser may temporarily block the road in lieu of furnishing flag personnel.

(b) Barricades. On roads listed in C5.31#, if Purchaser'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, Purchaser 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 C5.31#, Purchaser 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 – B6.33 SAFETY (continued)

Part II. Specific Requirements:

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

_____	_____
Name	Name
_____	_____
Title	Title
_____	_____
Date	Date

Table Pursuant to C2.35# (Option 1) - Individual Tree Designation, (06/2008)

Subdivision	D x D Spacing	1/ Description of Included Timber (See Other Requirements)
150, 270	13 feet	Only live Douglas-fir, Western Hemlock, Incense Cedar or True fir, if it is within the specified spacing of a live conifer with a larger stump diameter. All other species are non-included timber.
70, 120	14 feet	Only live Douglas-fir, Western Hemlock, Incense Cedar or True fir, if it is within the specified spacing of a live conifer with a larger stump diameter. All other species are non-included timber.
80, 110, 111, 112, 113	15 feet	Only live Douglas-fir, Western Hemlock, Incense Cedar or True fir, if it is within the specified spacing of a live conifer with a larger stump diameter. All other species are non-included timber.
110, 121, 130	17 feet	Only live Douglas-fir, Western Hemlock, Incense Cedar or True fir, if it is within the specified spacing of a live conifer with a larger stump diameter. All other species are non-included timber.
350, 352	19 feet	Only live Douglas-fir, Western Hemlock, Incense Cedar or True fir, if it is within the specified spacing of a live conifer with a larger stump diameter. All other species are non-included timber.
210, 220, 280, 290, 320, 321, 340	20 feet	Only live Douglas-fir, Western Hemlock, Incense Cedar or True fir, if it is within the specified spacing of a live conifer with a larger stump diameter. All other species are non-included timber.
300, 301, 310	21 feet	Only live Douglas-fir, Western Hemlock, Incense Cedar or True fir, if it is within the specified spacing of a live conifer with a larger stump diameter. All other species are non-included timber.
330	23 feet	Only live Douglas-fir, Western Hemlock, Incense Cedar or True fir, if it is within the specified spacing of a live conifer with a larger stump diameter. All other species are non-included timber.
71, 72, 114, 115, 116, 117, 121, 131, 132, 133, 151, 152, 153, 200, 211, 221, 302, 303, 304, 305, 306, 307, 311, 322, 323, 324, 331, 332, 341, 342, 352, 353	LTM (GAPS)	Only live Douglas-fir, Western Hemlock, Incense Cedar or True fir not marked with orange tree marking paint above and below stump height. #211 & #221 - marked w/ orange & white tree marking paint
70, 280, 330	DTR	Only live Douglas-fir, Western Hemlock, Incense Cedar or True fir, within 66' slope distance, stump to stump of a marked tree, double banded (2 horizontal stripes) marked with orange or orange and white tree marking paint above stump height and marked below stump height.

All	<p>Purchaser agrees to the following measures:</p> <ol style="list-style-type: none"> 1. Down timber from adjacent private land will be protected from cutting and kept separate from Included Timber. 2. Boundary trees are designated with orange tree marking paint and blue boundary cards. 3. Boundary trees with orange paint and blue boundary tags shall be included in the DXD spacing when the boundary tree has a larger stump diameter than other trees within the DXD spacing. Boundary trees shall always "cut" a tree within subdivision/payment unit. Boundary trees shall not be cut. 4. Orange painted trees within Group selects (LTM - Gaps) will not be included timber. 5. Orange painted trees within Dominant Tree Release (DTR) will not be included timber. 6. If orange painted buffer trees along streams are needed to be cut to accommodate a corridor they shall be directionally felled into the channel and left on site. 7. If purchaser premarks units, trees within 50 feet of Forest roads will be marked on the back side of the tree facing away from road, unless waived by Forest Service.
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Definitions:

1. D x D: Designation by Description.
2. LTM (Gaps): Leave Tree Mark.
3. DTR: Dominant Tree Release.
4. D x D Stump Height: Measure at 4 inches above the ground on the uphill side of the tree. When obstacles are present on the uphill side of the tree measure 4 inches from the obstacles.

Other requirements:

5. Minimum stump height left for inspection purposes will be 4 inches.
6. D x D Diameter: Measure at the Dx D specified stump height 4 inches, outside the bark with a diameter tape that is perpendicular to the bole of the tree. Stumps missing all or part of their bark will be measured as presented. Measure to the nearest tenth of an inch.
7. D x D Spacing: Measure slope distance at 4 inches above the ground from the closest point between trees. This does not need to be measured on the uphill side of the tree.
8. All leave trees will remain standing.
9. Down Tree: a) An entire tree lying on the ground with an attached root wad; b) a root sprung tree with broken and exposed roots showing above the ground (root sprung trees must remain identifiable after logging).

C3.47# - Abnormal Delay(09/2004)(con't)REMOVAL SCHEDULE

Included Timber	Time Limits
ALL.	60 days after felling is started.
All timber decked during construction clearing.	60 days after felling on each Specified Road constructed by Purchaser is initiated.
Timber decked during road construction.	60 days after Forest Service authorizes Purchaser to use roads pursuant to B5.2.

C6.315# - SALE OPERATION SCHEDULE (06/94)

SUBDIVISION	OPERATING CONDITIONS	PURPOSE
ALL	Restrict ground based operations to Normal Operating Season	Minimize soil resource impacts
ALL	Restrict haul during: Evenings (6:00 – 12:00), Weekends or during holidays, Such as, but, not, limited to, Memorial Day, 4 th of July And Labor Day	Public safety
110, 111, 112, 113, 114, 115, 116, 117	Restrict haul during: Haul shall be restricted on the days that are designated for the McKenzie Dump operation. Current days of operation are Monday and Thursday. If these days of operation change, then the restriction will coincide with the revised schedule.	Public safety
110, 111, 112, 113, 114, 115, 116, 117	Restrict Public access: Public Use shall be restricted on the days that are not designated for the McKenzie Dump operation. Current days of operation are Monday and Thursday. If these days of operation change, then the restriction will coincide with the revised schedule.	Public safety
ALL	Restrict ALL operations during approximately 3 rd week In October, including the Friday before, through the end Of the Friday following. All non-emergency vehicle traffic shall be restricted on ALL Forest roads during this period	Cascade Bull Elk Rifle Season
ALL	Native surface roads have limited structural strength and Haul is restricted during wet weather from October 15 To May 31.	Minimize impacts to soil resource
ALL	All in stream work for road reconstruction shall be restricted From July 7 to August 15.	Minimize impacts to Water resource.

C6.41# -Specific Requirements (01/2000)

<u>FELLING METHODS</u>	<u>SUBDIVISIONS</u>
1. Directional Felling shall be utilized.	<u>ALL</u>
2. Directional Felling shall be utilized to protect designated areas "SMA" as shown on the sale area map.	330
3. Directional Felling shall be utilized to fall away from designated streamscourses, buffers, reserve trees or as directed.	<u>ALL</u>
4. Directional Felling shall be utilized to fall corridor trees into stream channel in riparian, as they are cut. Corridor trees will be left.	<u>ALL</u>
5. Directional Felling shall be utilized to fall included timber away from roadside buffer along Forest road 2600700. All buffer trees shall be left standing.	150, 151, 152, 153
<u>FELLING EQUIPMENT</u>	<u>SUBDIVISIONS</u>
The use of tree jacks, wedges or tree lining may be required, however, the required methods used shall not be limited to these options.	ALL

C6.42# - Yarding/Skidding Requirements (04/2003)

YARDING/SKIDDING REQUIREMENTS

SUBDIVISIONS

<p><u>I/.</u> Prior to <u>ALL</u> operations commencing, purchaser shall submit a plan of operations, specifying, but, not limited to:</p> <ul style="list-style-type: none"> a. haul road access to and from units, b. all proposed temporary spur roads, c. landings, d. skid trails and roads, e. decking areas 	<p>ALL</p>
<p><u>A/.</u> <u>Ground based yarding</u> permitted/restricted to pre-designated and approved skidtrails in payment units and portions of payment units as designated on Sale Area Map. (LTSR, Locate Tractor Skidroads).</p> <p><u>1.</u> Yarding and skidding is restricted to slopes 30% or less, unless, otherwise agreed to by the Forest Service.</p> <p><u>2.</u> No more than 2 mainline skidtrails or skidroads shall radiate from landings. Secondary or feeder skidtrail or skidroad use will be maximized in order to minimize the number needed and to avoid excessive compaction and/or disturbance.</p> <p><u>3.</u> No ground based operations within 50' of all designated streamcourses.</p> <p><u>EXCEPTION to: No Groundbased operations within 120' of designated streamcourses in Subdivision #70.</u></p> <p><u>4.</u> Skid trails will be spaced no closer than 150 feet, from center line to center line.</p> <p><u>5.</u> Ground based yarding equipment will be equipped with an arch and a winch line, a minimum of 75 feet.</p> <p><u>6.</u> Pre-bunching equipment is permitted on slopes up to 45%</p>	<p>70, 71, 72, 80, 110, 111, 112, 113, 114, 115, 116, 117, 120, 130, 131, 132, 133, 150, 151, 152, 153, 200, 210, 211, 220, 221, 270, 280, 290, 301, 302, 304, 305, 306, 310, 311, 321, 322, 324, 332</p>
<p><u>B/.</u> <u>Skyline yarding</u> permitted as designated in subdivisions and portions of subdivisions as designated on Sale Area Map.</p> <p><u>1/.</u> No yarding across designated streamcourses, without full suspension.</p> <p><u>2/.</u> All skyline yarding corridors shall initially be made as narrow as practical. The corridors shall normally not exceed 15 feet in width after yarding has been completed. All corridors shall be a minimum of 150'(feet) center-to-center for parallel corridors <u>OR</u> a minimum of 150'(feet) at the backend or farthest point from the landing for radial logging configurations.</p> <p><u>3/.</u> All skyline corridors shall be approved before timber falling is started.</p> <p><u>4/.</u> One-end suspension required when using skyline yarding system.</p>	<p>120, 121, 300, 303, 305, 307, 320, 323, 330, 331,</p>

<p><u>5/.</u> Pre-bunching equipment is permitted on slopes up to 45%.</p>	
<p><u>6/.</u> Leave Tops Attached (LTA) will be required.</p>	<p>120, 121, 300, 307</p>
<p><u>C/.</u> Helicopter yarding permitted as designated in subdivisions and portions of subdivisions as designated on Sale Area Map.</p>	<p>340, 341, 342, 350, 351, 352, 353</p>
<p><u>1/.</u> Pre-bunchind equipment is permitted on slopes up to 45%.</p>	

YARDING/SKIDDING REQUIREMENTS

SUBDIVISIONS

<p><u>D/.</u> No fueling or fuel storage within 150' of a stream or water body.</p>	<p>ALL</p>
<p><u>E/.</u> All access points for temporary roads and skidroads (main or secondary) to Forest Road 2633700 shall be no closer than 200'(feet)spacing slope distance, when accessing Forest Road 2633700.</p>	<p>150, 151, 152, 153</p>

YARDING SYSTEM REQUIREMENTS

SUBDIVISIONS

<p><u>A/.</u> A ground based yarding system capable of transporting logs 700 feet, utilizes an arch or equivalent system of elevating the lead end of the log and a cable drum system w/ a bull line. A rubber tired skidder or equivalent equipment. Shovel logging equipment is acceptable ground based equipment.</p>	<p>70, 71, 72, 80, 110, 111, 112, 113, 114, 115, 116, 117, 120, 130, 131, 132, 133, 150, 151, 152, 153, 200, 210, 211, 220, 221, 270, 280, 290, 301, 302, 304, 305, 306, 310, 311, 321, 322, 324, 332</p>
<p><u>B/.</u> A skyline yarding system capable of transporting logs at least 1400 feet uphill and 350 feet downhill. The yarder must be equipped with a spar tower with a cable fairlead at least 40 feet above the ground and a slack pulling carriage with a 100' dropline.</p>	<p>120, 121, 300, 303, 305, 307, 320, 323, 330, 331</p>
<p><u>C/.</u> A helicopter yarding system capable of lifting 7500 pounds payload at an elevation of 4,500 feet above sea level and transporting logs fully suspended at least 5,000 feet horizontal distance uphill and downhill. Logs must be broken free of their beds vertically and totally suspended during in-haul portion of the yarding cycle. A 150' tagline may be required.</p>	<p>340, 341, 342, 350, 351, 352, 353</p>

APPLICATION SCHEDULE PURSUANT TO C6.6# - EROSION CONTROL AND SOIL TREATMENT BY PURCHASER (07/01)

PAYMENT UNIT OR UNIT NUMBER	AREAS	SEED		FERTILIZER		MULCH	
	A) SKID TRAILS B) FIRELINES C) TEMP. ROADS D) LANDINGS E) OTHER	APPLICATION		APPLICATION		APPLICATION	
		SPECIES <u>1/</u> MIXTURE	LBS/AC	TYPE <u>2/</u>	LBS/AC	TYPE <u>3/</u>	LBS/AC
ALL	A, C, D.	<u>1/</u>		N/A	N/A	N/A	N/A

1/ Seed mixture will be any of the following: winter wheat, spring wheat, or triticale. Seed will be certified weed free (Blue tag). Application rate will be 40 lbs/acre. Purchaser or sub-contractor that does the actual purchase of the seed will coordinate the acquisition of the seed with the Forest Service.

1/ For sales in Oregon, the seed shall meet the State certification specifications. Seed must be packaged in containers carrying official certification labels sewn in, glued to, or printed upon the container, with the following information:

1. Variety (if certified as to variety) and kind.
2. Quantity of seed (pounds or bushels).
3. Class of certified seed (blue tags for certified seed).
4. Inspection or lot number traceable to the certifying agency's records.

For sales in Washington, the seed shall be labeled as "Prohibited and Restricted Noxious Weed Free for the State of Washington." The purchaser shall furnish a copy of the seed analysis.

For state of California lands in Region 6, seed must be certified by the state of California, or by an independent agency or company that is approved by the state of California for "prohibited and restricted noxious weed free for the state of California."

For mixtures of seed, each ingredient in excess of 5 percent must be listed with its percentage by weight and its germination percentage. Legumes must be inoculated with nitrogen fixing bacteria before planting. The label must show the expiration date of the inoculant. All seed treated with a fungicide or pesticide must be labeled that it is "treated" giving the name of the chemical used, and an appropriate warning or a caution statement.

2/ Fertilizer shall be a standard commercial fertilizer with guaranteed analysis of contents clearly marked on containers.

3/ Mulch shall meet the appropriate State's certification specifications, with evidence of its certification traceable to the certifying agency's records.

4/ Cable skid trails/roads used by Purchaser that have a mineral soil exposed for lineal distances of 100 or more feet and exceed a slope of 15% shall be water barred. Waterbars will be spaced every 100 feet on slopes less than 15% and 50 feet on slopes greater than 15%. Treated areas shall span the total width of compaction. Water barring shall be kept reasonably current and shall be done during Normal Operating Season unless otherwise agreed.

DETAILED SLASH DISPOSAL PLAN
Golden Timber Sale
Willamette National Forest, McKenzie River Ranger District

- In accordance with Contract Provisions C6.74, Slash Treatment Requirements and Detailed Slash Disposal Plan
- Not with standing Contract Provision C6.74

Purchaser responsibilities are as follows:

- A) **Construction and size of landing piles:** Substantially all created slash at least 1 inch in diameter on the small end and at least 3 feet in length shall be piled. Created slash shall be piled as compact as possible and free of soil and rocks. Landing piles shall be a minimum of 8 feet in height and 10 feet in diameter. Height of piles should not exceed 20 feet nor be greater than the diameter of the pile. The area around each pile shall be cleared of all created slash a minimum of 6 feet. All pieces extruding from piles shall be bucked off to facilitate covering after construction.
- B) **Location of all grapple and landing piles:** Slash piles will be located to minimize damage of standing green trees and snags during burning. Unless otherwise agreed, this will be construed to be at least 15 feet from standing green trees and snags. Piles should not be built on tree stumps or heat sinks. Piles should not be located in the bottom of draws, streams, or ditches and should not obstruct roadways. All piles shall be constructed within the subdivision. Piles should not be located near known populations of invasive weed species.
- C) **Construction, size of grapple piles and area to be piled:** Sub Division #110, #111, #112, #113, #116, #117, #120, #150, #152, #153, #200, #210, #211 #220, #221, #270, #280, #290, #306, #310, #311, #320, and #322: All created slash within the ground base logged portions of all above listed sub divisions will be grapple piled. Grapple piles will be constructed with a "lift and pile" mechanism rather than a "push and pile" mechanism. Piles shall be as compact as possible and free of soil and rocks. Pile substantially all created slash that is at least 1 inch in diameter at the small end and at least 3 feet in length. Grapple piles shall be located to minimize damage of standing green trees and snags during burning. Unless otherwise agreed this will be construed to be at least 12 feet from standing green trees or snags. Pile size shall range from approximately 8 feet to 12 feet in diameter and the height of piles should not exceed the diameter of the pile. The area around each pile shall be cleared of all created slash a minimum of 6 feet. All pieces extruding from the piles shall be bucked off to facilitate covering after construction.
- D) **Location of hand piles:** Piles will be located to minimize the damage of standing trees and snags during burning. Unless otherwise agreed this will be construed to be equal distance from the boles of standing green trees and snags. Piles shall not be located within drainage structures, ditches, or stream channels. Piles shall not be placed on stumps or logs in order to remove a heat sink when burning. Piles will be placed so their length is right angle to the direction of the slope.

- E) **Construction and size of hand piles: Sub Divisions #120, #121, #220:**
Purchaser shall hand pile substantially all created slash within areas of Sub Divisions specified below. Created slash is slash that is at least 1 inch in diameter at the small end and at least 3 feet in length. Fine slash should be placed at the bottom of the pile with heavier material on the top. Diameter of piles shall be 6-12 feet. Height of piles shall not be less than 5 feet nor greater than the diameter of the pile. Piles shall be built to facilitate covering after construction. All pieces extruding from piles shall be bucked off. All piles shall be constructed within the subdivision.
- a. Sub Division #120: created slash within the skyline logged portion of the Sub Division will be hand piled.
 - b. Sub Division #121: created slash within the sub division will be hand piled.
 - c. Sub Division #220: created slash that is within skyline logged portion of the Sub Division will be hand piled.
- F) **Covering of all hand and grapple piles:** All hand and grapple piles shall be covered with polyethylene plastic film .004 inches thick. Plastic size should be approximately 100 square feet. Plastic shall be placed in locations that will ensure safe and adequate ignition can be achieved to allow consumption of piles. For large piles, plastic shall not be placed in locations that require individuals igniting piles to climb higher than 8 feet onto piles. Pieces of burnable material shall be placed on top of the plastic to keep the plastic from filling with wind and blowing off.
- G) **Yarding tops attached to the last log: Sub Division #120, #121, #220:**
Skyline logged portions of the above listed sub divisions shall have tops left attached to the last log pursuant to C6.42# will be yarded to the landing and shall be piled after being severed from the attached log. Pile created slash that is at least 1 inch in diameter on the small end and at least 3 feet in length. Unless otherwise agreed to in writing, piling of slash, including tops shall be done in the same normal operating season in which timber is yarded from the area. Location of piles and method of piling shall be in accordance with the previously mentioned specifications in sections A and B.
- H) **Hand Fireline: Sub Division #70, #71, #80, #114, #115, #130, #131, #132, #300, #301, #321, #324, #330, #331, and #332:** Fire lines shall be cleared of all brush and debris for a minimum width of 10 feet with the edge of the clearing inside the Sub Division boundary. Debris created from the clearing shall be scattered inside the Sub Division to reduce the creation of a windrow of slash along the fire line. A continuous fire line, minimum of 18 inches wide, shall be dug to mineral soil within the outer portion of the clearing. Fire line construction shall occur in the following Sub Divisions:
1. **Sub Divisions #70 and #71** shall have approximately 3,500 feet of fire line constructed inside the sub division boundaries. Fire line construction shall begin/end on the north side of Rd. 700 in sub division #70 and follow the boundary to sub division #71. Fire line construction shall continue along the southeast boundary of #71 to sub division #70 and continue along the eastern boundary of #70 and end/begin on the north side of Rd. 700.
 2. **Sub Division #80** shall have approximately 2,500 feet of fire line constructed inside the sub division boundary. Fire line construction shall begin/end on the north side of Rd. 700 and follow the sub division boundary back to Rd. 700.

3. **Sub Division #114** shall have approximately 1200 feet of fire line constructed inside the sub division boundary. Fire line construction shall begin/end on the west side of Rd. 705 and follow the sub division boundary and begin/end at Rd. 705.
4. **Sub Division #115** shall have approximately 700 feet of fire line constructed inside the sub division boundary. Fire line construction shall begin/end on the east side of Rd. 705 and follow the sub division boundary and begin/end on the east side of Rd. 705.
5. **Sub Division #130** shall have approximately 2,500 feet of fire line constructed inside the sub division boundary. Fire line construction shall begin/end on the north side of Rd. 252 and follow the sub division boundary to the west side of Rd. 254. Additional fire line construction shall begin/end on the east side of Rd. 254 and follow the sub division boundary to the west side of Rd. 254.
6. **Sub Division #131** shall have approximately 300 feet of fire line constructed inside the sub division boundary. Fire line construction shall begin/end on the north side of Rd. 252 and follow the sub division boundary north and begin/end at the junction with sub division #130.
7. **Sub Division #132** shall have approximately 300 feet of fire line constructed inside the sub division boundary. Fire line construction shall begin/end at the sub division boundary junction with #130 and follow the boundary north and begin/end at sub division #151.
8. **Sub Division #151** shall have approximately 1000 feet of fire line constructed inside the sub division boundary. Fire line construction shall begin/end at the boundary junction with sub division #132 and follow the boundary and begin/end at the boundary junction with sub division #130.
9. **Sub Division #211** shall have approximately 800 feet of fire line constructed inside the sub division boundary. Fire line construction shall begin/end on the east side of Rd. 705 and follow the boundary east and begin/end on the south side of Rd. 705.
10. **Sub Division #300** shall have approximately 3000 feet of fire line constructed inside the sub division boundary. Fire line construction shall begin on the north side of Rd. 700 and follow the sub division boundary north to the boundary junction with sub division #324. Additional fire line construction shall begin/end on the south side of Rd. 700 and follow the sub division boundary and begin/end on the south side of Rd. 705.
11. **Sub Division #301** shall have approximately 3000 feet of fire line constructed inside the sub division boundary. Fire line construction shall begin on the south side of Rd. 700 and follow the boundary south to Rd. 705. Additional fire line construction shall begin on the south side of Rd. 700 and follow the boundary ending on the east side of Rd. 705.
12. **Sub Division #302** shall have approximately 1000 feet of fire line constructed inside the sub division boundary. Fire line construction shall begin/end on the south side of Rd. 705 and follow the boundary and begin/end on the west side of Rd. 705.
13. **Sub Division #321** shall have approximately 1000 feet of fire line constructed inside the sub division boundary. Fire line construction shall begin on the north side of Rd. 700 and follow the sub division boundary north to the boundary junction with sub division #332. Additional fire line construction shall begin at the boundary junction of sub divisions #321 and #332 and follow the boundary south to sub division #324.

14. **Sub Division #324** shall have approximately 600 feet of fire line constructed inside the sub division boundary. Fire line construction shall begin at the boundary junction of sub divisions #324 and #321 and follow the sub division boundary south to sub division #300.
15. **Sub Division #330, #331, and #332** shall have approximately 3,750 feet of fire line constructed inside the sub division boundary. Fire line construction shall begin at the boundary junction of sub divisions #332 and #321 and follow the sub division boundary north to sub division #330. Fire line construction shall continue around sub division #330 to #331. Fire line construction shall continue around the north and east boundaries of sub division #331 and continue south around the eastern boundary of sub divisions #330 and #332 ending at the boundary junction with sub division #321.