

Sale Name: BR SBA

TRAFFIC CONTROL PLAN AND SPECIFICATIONS PURSUANT TO BT6.33 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 CT5.31# 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 CT5.31# and temporary roads intersect with CT5.31# 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 CT5.31# 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 CT5.31#.

Sale Name:

TRAFFIC CONTROL PLAN AND SPECIFICATIONS - BT6.33 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 CT5.31# and temporary roads, Purchaser may temporarily block the road in lieu of furnishing flag personnel.

(b) Barricades. On roads listed in CT5.31#, 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 CT5.31#, 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.

Sale Name:

TRAFFIC CONTROL PLAN AND SPECIFICATIONS - BT6.33 Safety (continued)

Part II. Specific Requirements:

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

Name	Name
Title	Title
Date	Date

INSTRUCTIONS: Mandatory in all new contracts and may be added to existing contracts by agreement.

Specific requirements are to be used to show trails, add signs, or expand on the other requirements. Font is Courier New, size 10.

Examples are:

- 1. Sign No. 4 is required when traffic exceeds 4 trucks in any 1 hour (intersections only).*
- 2. Purchaser may elect to install and lock gate on Road 140. Notify Forest Service prior to locking.*
- 3. Sign No. 3 to be covered during first week of deer hunting season.*
- 4. Special conditions of winter logging and recreation use.*

Pulled from R6 FTP site 12/10/08.

TABLE A PURSUANT TO CT5.12# - USE OF ROADS BY PURCHASER (06/1999)

Restricted Road List

Road Number	Road Name	Termini		Map Legend	Description of Restrictions
		From	To		
All Roads		Beginning	End		Hauling during weekends and holidays prohibited without prior approval from Forest Service.
All Roads		Beginning	End		Forest Service permission required for any snow plowing.
3000290 & spurs 3000510 3000520 3000525 3000530 3000560 3000650		J/w 3000 J/w 3000500 J/w 3000500 J/w 3000500 J/w 3000535 J/w 3000500 J/w 3000600	EOP Unit 27 Unit 36 Unit 31 Unit 37 Unit 18 End of Road	A G	No public use allowed, "For Logging Use Only". Gate to be locked or road effectively blocked when operator not present.
3000000 3000400 3000500 3000530 3000535 3000580 3000600 3000600 3005200		All J/w 3000 All J/w 3000500 All All J/w 3000 J/w 3000500 J/w 3000500	Portions J/w 3010020 Portions J/w 3000535 Portions Portions Unit 11 Unit 14 Unit 16	KO	Keep Open for Administrative use and fire suppression access. (April 1 to Nov. 30)

Title and Date of Governing Road Rules Document:
 Okanogan National Forest Road Use Rules
 Commercial Road Rules

February 14, 1994
 Effective Date

TABLE PURSUANT TO CT5.31# - ROAD MAINTENANCE REQUIREMENTS (07/2001)

Contract Road Maintenance Requirements Summary

Road	Termini		Miles	Applicable Pre-haul Road Maintenance Specifications											
	From	To		T-803	T-811	T-812	T-813	T-831	T-834	T-835	T-836	T-838	T-841	T-842	T-891
3000000	Jct Aeneas Valley Rd.	Jct 3000290	4.53		P			P	P						
3000290	Jct 3000000	NE corner Unit 056	1.71									P			
3000291	Jct 3000290	W edge Unit 048	0.34									P			
3000292	Jct 3000290	SE edge Unit 055	0.63									P			
3000294	Jct 3000290	NE corner Unit 058	0.95									P			
3000400	Jct 3000000	Jct 3010015	0.36					P	P						
3000500	Jct 3000000	Jct 3000530	3.03		P			P	P						
3000500	SW corner Unit 023	FS property boundary	4.28								P				
3000500	FS property boundary	Jct Lyman Lake Rd.	1.17		P			P	P						
3000510	Jct 3000500	NW corner Unit 025	1.12									P			
3000520	Jct 3000500	N corner Unit 036	1.00									P		P	
3000525	Jct 3000500	End of road	1.00									P		P	
3000530	Jct 3000500	End of road	3.27									P			
3000535	Jct 3000530	S corner Unit 038	1.46									P			
3000560	Jct 3000500	E corner Unit 018	1.23									P		P	
3000600	Jct 3000000	E edge Unit 011	1.90									P			
3000600	N edge Unit 014	Jct 3000500	0.94									P			
3000650	Jct 3000600	NE corner Unit 014	0.74									P		P	

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

Contract Road Maintenance Requirements Summary (continued)

Road	Termini		Miles	Applicable Pre-haul Road Maintenance Specifications											
	From	To		T-803	T-811	T-812	T-813	T-831	T-834	T-835	T-836	T-838	T-841	T-842	T-891
3005200	S edge Unit 016	Jct 3000500	0.54									P			
New Const	3000600	End of road	0.55									P			

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TABLE PURSUANT TO CT5.31# - ROAD MAINTENANCE REQUIREMENTS (07/2001)

Contract Road Maintenance Requirements Summary

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	From	To		T-803	T-811	T-812	T-813	T-831	T-834	T-835	T-836	T-838	T-841	T-842	T-891
3000000	Jct Aeneas Valley Rd.	Jct 3000290	4.53	P	P	P		P	P						P
3000290	Jct 3000000	NE corner Unit 056	1.71	P								P			
3000291	Jct 3000290	W edge Unit 048	0.34	P								P			
3000292	Jct 3000290	SE edge Unit 055	0.63	P								P			
3000294	Jct 3000290	NE corner Unit 058	0.95	P								P			
3000400	Jct 3000000	Jct 3010015	0.36	P				P	P						
3000500	Jct 3000000	Jct 3000530	3.03	P	P	P		P	P						P
3000500	SW corner Unit 023	FS property boundary	4.28	P								P			
3000500	FS property boundary	Jct Lyman Lake Rd.	1.17	P	P	P		P	P						P
3000510	Jct 3000500	NW corner Unit 025	1.12	P								P			
3000520	Jct 3000500	N corner Unit 036	1.00	P								P			
3000525	Jct 3000500	End of road	1.00	P								P			
3000530	Jct 3000500	End of road	3.27	P								P			
3000535	Jct 3000530	S corner Unit 038	1.46	P								P			
3000560	Jct 3000500	E corner Unit 018	1.23	P								P			
3000600	Jct 3000000	E edge Unit 011	1.90	P								P			
3000600	N edge Unit 014	Jct 3000500	0.94	P								P			
3000650	Jct 3000600	NE corner Unit 014	0.74	P								P			

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Contract Road Maintenance Requirements Summary (continued)

Road	Termini		Miles	Applicable During-haul Road Maintenance Specifications											
	From	To		T-803	T-811	T-812	T-813	T-831	T-834	T-835	T-836	T-838	T-841	T-842	T-891
3005200	S edge Unit 016	Jct 3000500	0.54	P								P			
New Const	3000600	End of road	0.55	P								P			

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TABLE PURSUANT TO CT5.31# - ROAD MAINTENANCE REQUIREMENTS (07/2001)

Contract Road Maintenance Requirements Summary

Road	Termini		Miles	Applicable Post-haul Road Maintenance Specifications											
	From	To		T-803	T-811	T-812	T-813	T-831	T-834	T-835	T-836	T-838	T-841	T-842	T-891
3000000	Jct Aeneas Valley Rd.	Jct 3000290	4.53		P		P	P	P						P
3000290	Jct 3000000	NE corner Unit 056	1.71									P			
3000291	Jct 3000290	W edge Unit 048	0.34									P			
3000292	Jct 3000290	SE edge Unit 055	0.63									P			
3000294	Jct 3000290	NE corner Unit 058	0.95							D		P	D		
3000400	Jct 3000000	Jct 3010015	0.36					P	P						
3000500	Jct 3000000	Jct 3000530	3.03		P			P	P						P
3000500	SW corner Unit 023	FS property boundary	4.28								P				
3000500	FS property boundary	Jct Lyman Lake Rd.	1.17		P			P	P						P
3000510	Jct 3000500	NW corner Unit 025	1.12							D		P	D		
3000520	Jct 3000500	N corner Unit 036	1.00							D		P	D		
3000525	Jct 3000500	End of road	1.00							D		P	D		
3000530	Jct 3000500	End of road	3.27							D		P	D		
3000535	Jct 3000530	S corner Unit 038	1.46									P			
3000560	Jct 3000500	E corner Unit 018	1.23							D		P	D		
3000600	Jct 3000000	E edge Unit 011	1.90									P			
3000600	N edge Unit 014	Jct 3000500	0.94							D		P	D		
3000650	Jct 3000600	NE corner Unit 014	0.74							D		P	D		

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Contract Road Maintenance Requirements Summary (continued)

Road	Termini		Miles	Applicable Post-haul Road Maintenance Specifications											
	From	To		T-803	T-811	T-812	T-813	T-831	T-834	T-835	T-836	T-838	T-841	T-842	T-891
3005200	S edge Unit 016	Jct 3000500	0.54									P			
New Const	3000600	End of road	0.55							D		P	D		

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

ROAD MAINTENANCE REQUIREMENTS SPECIFICATION TABLE
PURSUANT TO CT5.31# - ROAD MAINTENANCE REQUIREMENTS (07/2001)

1			2			3			4	5	6			7	8	9	
Road No.	Termini From	Termini To	Special Project Specification	Travel Way			Brushing And Log Out	Surfacing	Dust Abatement			Seasonal Maintenance	Snow Removal	Post Haul			
				Width	X Slope	Comp			Product	Applic. Rate	Width			Block	Treat		
3000000	Jct Aeneas Valley Rd.	Jct 3000290	T-813-01F	EX	AI			1 1/2" minus	H2O		EX		TS		PR		
3000290	Jct 3000000	NE corner Unit 056		EX	AI								TS		PR		
3000291	Jct 3000290	W edge Unit 048		EX	AI								TS		PR		
3000292	Jct 3000290	SE edge Unit 055		EX	AI								TS		PR		
3000294	Jct 3000290	NE corner Unit 058	T-835-01F, T-835-02F, T-841-01F	EX	AI								TS		PR		
3000400	Jct 3000000	Jct 3010015		EX	AI							W	TS		PR		
3000500	Jct 3000000	Jct 3000530		EX	AI				H2O		EX		TS		PR		
3000500	SW corner Unit 023	FS prop. boundary		EX	AI								TS		PR		
3000500	FS prop. boundary	Jct Lyman Lake Rd.		EX	AI				H2O		EX		TS		PR		
3000510	Jct 3000500	NW corner Unit 025	T-835-01F, T-835-02F, T-841-01F	EX	AI							W	TS		PR		
3000520	Jct 3000500	N corner Unit 036	T-835-01F, T-835-02F, T-841-01F	EX	AI		OPT					W	TS		PR		
3000525	Jct 3000500	End of road	T-835-01F, T-835-02F, T-841-01F	EX	AI		OPT					W	TS		PR		
3000530	Jct 3000500	End of road	T-835-01F, T-835-02F, T-841-01F	EX	AI							W	TS		PR		
3000535	Jct 3000530	S corner Unit 038		EX	AI								TS		PR		
3000560	Jct 3000500	E corner Unit 018	T-835-01F, T-835-02F, T-841-01F	EX	AI		OPT					W	TS		PR		

ROAD MAINTENANCE REQUIREMENTS SPECIFICATION TABLE
PURSUANT TO CT5.31# - ROAD MAINTENANCE REQUIREMENTS (07/2001)
 (continued)

1			2	3			4	5	6			7	8	9	
Road No.	Termini From	Termini To	Special Project Specification	Travel Way			Brushing And Log Out	Surfacing	Dust Abatement			Seasonal Maintenance	Snow Removal	Post Haul	
				Width	X Slope	Comp			Product	Applic. Rate	Width			Block	Treat
3000600	Jct 3000000	E edge Unit 011		EX	AI								TS		PR
3000600	N edge Unit 014	Jct 3000500	T-835-01F, T-835-02F, T-841-01F	EX	AI						W		TS		PR
3000650	Jct 3000600	NE corner Unit 014	T-835-01F, T-835-02F, T-841-01F	EX	AI		OPT				W		TS		PR
3005200	S edge Unit 016	Jct 3000500		EX	AI								TS		PR
New Const	3000600	End of road	T-835-01F, T-835-02F, T-841-01F	EX	AI						W		TS		PR

ROAD MAINTENANCE REQUIREMENTS SPECIFICATION CODES TABLE PURSUANT TO
CT5.31# - ROAD MAINTENANCE REQUIREMENTS (07/2001)

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
CT5.31# - ROAD MAINTENANCE REQUIREMENTS (07/2001)

Column No.	Heading	Entry	Explanation
5	Surfacing	Aggregate Grading	Purchaser shall place surfacing on roads listed according to the grading indicated.
		D	Purchaser is to make deposits for listed road maintenance, including surface rock replacement.
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.

T-803 - SNOW REMOVAL (05/07)

803.01 Description

This Section provides for removal of snow from roads to facilitate logging operations and safe use.

803.02 Maintenance Requirements

- (1) Erect signs required by the Sign Plan in the SUPPLEMENTAL SPECIFICATIONS.
- (2) Perform work in a manner to preserve and protect roads and appurtenances, and prevent erosion damage to roads, streams, and other Forest values.
- (3) Do not undercut banks. Do not blade gravel or other surfacing material off the road.
- (4) Keep roadbed drainage ditches, drain dips, and culverts functional when needed during operations and upon completion of operations.
- (5) Control snow removal to identify the usable traveled way having roadbed support. Reshape over-width plowing as necessary to define the usable width.
- (6) Space, construct, and maintain drainage holes in the dike of snow or berm caused by snow removal operations. Place drain holes to obtain surface drainage without discharging on erodible fills.
- (7) Close roads to wheeled vehicles at times and in the manner specified in C(T)5.12 or the Road Rules document.
- (8) Upon seasonal completion of Purchaser's Operations, effectively block the road by a snow barricade, unless otherwise approved by the Contracting Officer.
- (9) Remove snow for either public access or project use as established in the SUPPLEMENTAL SPECIFICATIONS and meet the following requirements:

- (a) Removal for Public Access (Method JU) - Remove snow from all of the traveled way, including turnouts, for safe and efficient use for both timber transportation and the public. Remove intruding windfalls, debris, or slough and slide material for the full width of the traveled way and deposit out of drainage's at locations designated by the Contracting Officer.
 - (b) Removal for Project Use (Method TS) - Remove snow from all or part of the traveled way, including sufficient turnouts for safe and efficient use for timber transportation and to protect the road. Remove intruding windfalls, debris or slough and slide material and dispose of only as necessary to provide passage for timber transportation. Removed materials may be deposited off the traveled way or outside the traveled way at locations designated by the Contracting Officer.
- (10) When directed by the Contracting Officer, replace in kind, within sixty (60) days after the start of Normal Operating Season, any surfacing material which has been bladed off the road, unless otherwise agreed. Contracting Officer will notify Purchaser in writing as to the cubic yard equivalent of bladed off material by the start of the normal operating season.

803.03 Equipment

Purchaser may use any type of equipment to remove snow, providing:

- a. Type or use of equipment is not restricted in C(T)5.12 or Road Rules document.
- b. Equipment is of the size and type commonly used to remove snow and will not cause damage to the road.
- c. The use of plows or dozers to remove snow requires written approval by the Contracting Officer. Equip plows or dozers with shoes or runners to keep the dozer blade a minimum of 2 inches above the road surface unless otherwise approved by the Contractor Officer.

803.04 Ice Control

Ice control may be performed by Purchaser when approved by the Contracting Officer in writing. Such approval will include ice control materials, application rates, and any specific requirements of use.

T-811 - BLADING (10/07)

811.01 Description

This work consists of surface blading the traveled way to a condition that facilitates traffic and provides proper drainage. Blading includes shaping the crown or slope of travel way, berms, and drainage dips in accordance with this specification. Compaction is required when shown on the ROAD LISTING.

811.02 Maintenance Requirements

- A. Timing - Perform surface blading during the contract period as often as needed to provide conditions stated for the maintenance level of the road.

- B. General
 - 1. Blade and shape the existing traveled way and shoulders, including turnouts , to produce a surface which is uniform, consistent to grade, and crowned or cross-sloped as indicated by the character of the existing surface, unless otherwise shown in the ROAD LISTING, to at least 1/2 inch per 1 foot of width, but not more than 3/4 inch per 1 foot of width. Thoroughly loosen surfacing material to no less than 2 inches depth or the depth of potholes or corrugations. Scarification to facilitate cutting to the full depth of potholes or corrugations may be elected, but will be considered incidental to blading. Do not scarify to a depth that will cause contamination of the surfacing.
 - 2. Apply water during blading when sufficient moisture is not present to prevent segregation. Supply, haul, and apply water in accordance with Section T-891.
 - 3. Shape existing native rock or aggregate surfaced drainage dips to divert surface runoff to existing outlet devices, ditches, or discharge locations.
 - 4. Establish a blading pattern which provides a uniform driving surface, retains the surfacing on the roadbed, and provides a thorough mixing of the materials within the completed surface width. Upon final blading, no disturbed rock shall protrude more than 2 inches above the adjacent surface unless otherwise provided in the contract. Remove and place outside the roadbed, material not meeting this dimension so as not to obstruct drainage ways or structures. This material may be scattered off the roadbed if there is free drainage.

- 5. Where DESIGNATED ON THE GROUND, included in the ROAD LISTING, SHOWN ON THE DRAWINGS or as ordered by the Contracting Officer invasive species of concern prevention practices shall be followed as listed below.

Invasive Species of Concern Prevention Practices
N/A

C. Routine Blading

- 1. Conform to the dimensions SHOWN ON THE DRAWINGS or designated in the SUPPLEMENTAL SPECIFICATIONS upon completion of blading.
- 2. Shape roadbed width in excess of the dimensions shown only as needed to provide drainage away from the traveled way. Do not remove established grasses and other vegetation from the excess width except as incidental to providing drainage or unless otherwise provided in the contract.

D. Compaction

Roads requiring compaction will be included in the ROAD LISTING. Unless Compaction Method B is designated in the ROAD LISTING, all traveled ways requiring compaction may be compacted by Method A. Compaction shall commence immediately following blading.

Compaction methods are:

Compaction Method A: Breaking track while operating equipment on the traveled way.

Compaction Method B: 7-10 ton pneumatic, steel, or equivalent vibratory roller, operated to cover the full width two (2) times.

E. Undercutting - Undercutting roadway back slope is not permitted.

F. Intersections

1. At intersections, blade the roadbeds of side roads which are not closed or restricted from vehicular use to ensure smooth transitions.
2. Signing, cross ditching in the road surface (traveled way), earth berms, or other devices placed to discourage or eliminate use by passenger cars, are field evidence of road closure or restriction. Roads listed for work under Sections T-835, T-836, T-838, or T-839 are considered restricted.
3. Side roads listed for work under this Section are not restricted.

G. Cleaning of Structures - Do not allow materials resulting from work under this Section to remain on or in structures, such as bridges, culverts, cattle guards, or drainage dips.

H. Berms - Maintain existing berms to the condition of adjacent segments. Do not create new berms.

I. Smooth Blading - Smooth blading may be used as an interim measure to remove loose surfacing material from the wheel paths, and store removed materials in a recoverable windrow, until blade processing as described in this section is feasible. Watering will not be required for smooth blading. Accomplish smooth blading without distorting the existing cross-slope or crown of the traveled way.

Move and store loose surfacing materials on the high side of super-elevated curves and sections with uniform inslope or outslope. In crowned sections, store the material on either or both sides as elected. Windrow and place stored materials to provide not less than 12 feet of smooth traveled way on one-lane segments, or 20 feet of smooth traveled way on two-lane segments, or segments with turnouts. Cut holes through windrows, which may collect water on the road, for drainage at least every 500 feet.

T-812 - DUST ABATEMENT (05/09)

812.01 Description

This work consists of applying dust palliatives on roads shown in the Road Listing.

812.02 Materials

The dust palliative materials are shown in the Road Listing, unless shown as Optional for Purchaser's election. If Optional is shown then the Purchaser may use any of the products listed below. Dust palliative materials shall meet the following requirements:

- A. Water (H2O) will be obtained from sources SHOWN ON THE DRAWINGS or listed in the SUPPLEMENTAL SPECIFICATIONS to Section T-891 Water Supply, unless otherwise approved by the Contracting Officer.
- B. Lignin Sulfonate (LIG S) Provide certification that the material meets the requirements of Subsection 725.20 of the "Standard Specifications for Construction of Roads and Bridges on Federal Highway Projects (FP-03)" and the Forest Service Supplemental Specification 725.20.
- C. Magnesium Chloride (MG CL2) Provide certification that that the material meets the requirements of Subsection 725.02 of the "Standard Specifications for Construction of Roads and Bridges on Federal Highway Projects (FP03) " and the Forest Service Supplemental Specification 725.02.
- D. Calcium Chloride Brine (CA CL2B). Provide certification that the material meets the requirements of Subsection 725.02 of the " Standard Specifications for Construction of Roads and Bridges on Federal Highway Projects (FP03) " and the Forest Service Supplemental Specification 725.02.
- E. Calcium Chloride Flake (CA CL2F). Provide certification that that the material meets the requirements of Subsection 725.02 of the "Standard Specifications for Construction of Roads and Bridges on Federal Highway Projects (FP03) " and the Forest Service Supplemental Specification 725.02.
- F. Bituminous dust palliatives. Manufacture materials specifically for dust abatement purposes which conform to the requirements of Section T-892 for each listed road in the Road Listing.

812.03 Methods

As shown in the SUPPLEMENTAL SPECIFICATIONS, Purchaser may utilize a variety of methods to decrease or eliminate the need for dust abatement

812.04 Equipment

- A. Design, equip, and operate application equipment for spreading dust palliatives so that the material is uniformly applied at the rate and traveled way widths shown in the Road Listing
- B. For bituminous palliatives provide equipment that heats and applies the bituminous material. Provide a bituminous distributor that is self-powered and mounted on pneumatic tires and equipped with a pump and circulating spray bar, a tachometer, pressure gauges, accurate volume measuring devices such as visual volume dial or gauge calibrated to the tank, and a thermometer. Provide equipment which is a standard commercial type of proven performance.
- C. Accomplish dilution of dust palliatives within the application vehicle with the water source protected from contamination. Circulate the resulting mixture at least five (5) minutes to ensure uniform mixing prior to application.

812.05 Maintenance Requirements

- A. Limit water applications to abatement for hauling vehicles and provide at a frequency and rate which controls dust such that vehicle tail lights and turn signals remain visible. Vary rates of application as needed but remain low enough to avoid forming rivulets. Accomplish the abatement by sufficient frequency of application without saturating and softening the traveled way. Compacted or glazed road surface or wheel tracks may be loosened as needed for water penetration.
- B. Apply all other dust palliatives at the rates and times agreeable to the Contracting Officer. The Road Listing shows the expected average application rate and may be varied to meet field conditions. Lignin Sulfonate, Magnesium Chloride, and Calcium Chloride Brine are listed as gallons per square foot of the undiluted product at fifty (50), thirty-three (33), and thirty-eight (38) percent respectively. Calcium Chloride Flake is listed in pounds per square foot at seventy-seven (77) percent concentration.
- C. Apply bituminous dust palliatives only when the surface to be treated contains sufficient moisture to obtain uniform distribution of the dust palliative unless noted differently in the SUPPLEMENTAL SPECIFICATIONS.
- D. Prior to initial application, when needed, the road will be bladed and shaped under Section T-811, Blading.
- E. Required subsequent applications may be applied to the existing road surface without blading.
- F. Dust palliatives will not be applied in a manner that spatters or mars adjacent structures or trees, or placed on or across cattleguards or bridges. Discharge dust abatement material only on roads approved by the Contracting Officer.

T-813 - SURFACING (10/07)

813.01 Description

This work consists of placing surface aggregate as DESIGNATED ON THE GROUND, or as ordered by the Contracting Officer. It includes preparing the area, furnishing, hauling, and placing all necessary materials and other work necessary to blend with the adjacent road cross section.

813.02 Materials

- A. Materials will be Government-furnished when stated in the supplemental specifications.
- B. Materials furnished by the Purchaser shall conform to the gradation and quality requirements of Section 703 of the "Standard Specifications for Construction of Roads and Bridges on Federal Highway Projects FP-03 U.S. Customary Units" and FS supplements to the FP-03.
- C. All materials transported onto National Forest System land shall be free of invasive species of concern. Written documentation of methods used to determine the invasive species of concern free status of any and all materials furnished by the Purchaser shall be submitted to the Contracting Officer before transport of any materials onto National Forest System land.

The Contracting Officer shall have 5 days, excluding weekends and Federal holidays, to review the methods and inspect the materials after the required written documentation is provided by the Purchaser. After satisfactory review and inspection or after such 5 day period, the Purchaser may transport the material onto National Forest System land.

Material or methods appropriate for establishing invasive species of concern free status for the particular invasive species of concern are listed below.

Invasive Species of Concern and Acceptable Methods specific to this project:

Invasive Species of Concern	Acceptable Methods
N/A	N/A

813.03 Maintenance Requirements

A. Thoroughly loosen the area to be surfaced to a minimum depth of 1 inch prior to placement of aggregate.

B. Mixing and Placing

When scheduled coincidentally with work under Section T-811, and included in the SUPPLEMENTAL SPECIFICATIONS, mix surfacing and existing aggregate with water until a uniform mixture is obtained prior to final shaping and compaction.

Otherwise, spread the material on the prepared area in layers no more than 4 inches in depth. When more than one (1) layer is required, shape and compact each layer before the succeeding layer is placed. Upon completion, the surfacing shall reasonably conform to the adjacent cross section and provide smooth transitions in the road profile.

C. Compaction Methods

Compaction Method A: Breaking track while operating equipment on the traveled way.

Compaction Method B: 7-10 ton pneumatic, steel, or equivalent vibratory roller, operated to cover the full width two (2) times.

Either Method A or B may be used unless Method B is designated in the ROAD LISTING.

**SPECIAL PROJECT SPECIFICATION
T-813-01F - SURFACING**

In accordance with T-813.01, the following location and amount of aggregate to be placed are hereby DESIGNATED.

Road Number	Location	Amount of Crushed Aggregate (CY Truck Measure)	Aggregate Gradation
3000000	MP 0.00 to MP 0.11	65	1 ½" minus

T-831 - DITCH MAINTENANCE (10/07)

831.01 Description

This Section provides for routine maintenance of various types of ditches to provide a waterway which is unobstructed, as shown on the ROAD LISTING or DESIGNATED ON THE GROUND.

831.02 Maintenance Requirements

- A. Maintain ditches by removing rock, soil, wood, and other materials. Maintained ditches shall function to meet the intent of the original design.
- B. Undercutting backslopes during removal operations is not permitted.
- C. Suitable material up to 4 inches in greatest dimension removed from the ditches may be blended into existing native road surface and shoulder or placed in designated berm.
- D. Do not blend material from ditch cleaning operations into aggregate surfaced roads. Do not blade material across aggregate or bituminous surfaced roads, unless approved in writing by the Contracting Officer.
- E. Haul material in excess of 831.02 D or subject to 831.02 E to a designated waste area under Section T-832. Remove excess materials temporarily stored on the ditch slope or edge of the shoulder daily.
- F. Remove limbs and wood chunks in excess of 12 inches in length or 3 inches in diameter from ditches and place outside the roadway.
- G. Clean paved surfaces of all materials resulting from ditch maintenance work.
- H. Shape lead-off ditches to drain away from the traveled way.
- I. Where DESIGNATED ON THE GROUND, included in the ROAD LISTING, SHOWN ON THE DRAWINGS or as ordered by the Contracting Officer invasive species of concern prevention practices shall be followed as listed below.

Invasive Species of Concern Prevention Practices
N/A

T-834 - DRAINAGE STRUCTURE MAINTENANCE (10/07)

834.01 Description

This work consists of cleaning and reconditioning culverts and other drainage structures.

834.02 Maintenance Requirements

- A. Clean drainage structures, inlet structures, culverts, catch basins, and outlet channels specified in the SUPPLEMENTAL SPECIFICATIONS. Clean catch basins by removing the material within the area SHOWN ON THE DRAWINGS.
- B. Clean the transition from the ditch line to the catch basin a distance of 10 feet from the catch basin. Clean outlet channels and lead-off ditches a distance of 6 feet. Remove and place debris and vegetation so as to not enter the channel or ditch, or obstruct traffic. Haul debris and vegetation to a designated disposal area in accordance with Section T-832.
- C. Hydraulic flushing of drainage structures is not allowed unless provided for in the SUPPLEMENTAL SPECIFICATIONS.
- D. Cleaning and reconditioning are limited to the first 3 feet of inlet and outlet, determined along the top of the structure. Recondition culvert inlet and outlet by field methods such as jacking out or cutting away damaged metal which obstructs flow. Treat cut edges with a zinc rich coating, in accordance with AASHTO M 36M and ASTM A 849.
- E. Where DESIGNATED ON THE GROUND, included in the ROAD LISTING, SHOWN ON THE DRAWINGS or as ordered by the Contracting Officer invasive species of concern prevention practices shall be followed as listed below.

Invasive Species of Concern Prevention Practices
N/A

T-835 - ROADWAY DRAINAGE MAINTENANCE (05/07)

835.01 Description

This work consists of providing post haul drainage on roads.

835.02 Maintenance Requirements

A. Drainage

1. Upon completion of work, shape the roadway to provide for the removal of surface water. The roadway need not be passable to vehicles. Repair and reinstall water bars, barriers or berms existing prior to the Purchaser's operation. Areas where water is ponded by existing centerline profile sags in through cuts may be left untreated.

2. Continuous blade shaping of the roadbed is not required under this specification.

3. Work to be done at staked locations shall be as indicated on the stake and/or stated in SUPPLEMENTAL SPECIFICATIONS:

4. Any of the following methods are acceptable for use at eroded or rutted locations:

Method A: Outsloping the roadbed at not less than 1/2 inch per yard of width.

Method B: Insloping the roadbed at not less than 1/2 inch per yard of.

Method C: Water bar roadbed at locations staked on the ground and construct as SHOWN ON THE DRAWINGS or as included in SUPPLEMENTAL SPECIFICATIONS.

5. Drainage structures located in through fills and natural watercourses shall be fully functional without obstructions, including inlet and outlet channel within 20 feet of the structure.

6. Either clean culverts and other fabricated structures to provide drainage from road ditches and make the ditch functional or provide water bar(s) across the roadbed. Removed structures shall become Purchaser's property to be removed from National Forest System land. Remove and replace any purchaser-installed temporary drainage structures with a water bar.

B. Slides, Slumps and Slough

1. Slides and slough may be left in place, provided they do not potentially impound water or divert water from watercourses. As necessary, reshape the various surfaces to provide drainage.

2. Provide drainage to effectively decrease or eliminate the entry of surface water into slides, slumps, and roadbed surface cracks. Place berms, waterbars or ditches as needed to intercept and remove runoff water from the roadbed. Surface seal cracks by covering over with native soil materials to prevent additional water entry and compact with equipment tires.

C. Entrance Devices

Upon completion of work, replace entrance devices to effectively eliminate access by motorized vehicles having four (4) wheels and a width in excess of 50 inches.

D. Seeding

Seed and fertilize all disturbed areas in accordance with requirements set forth in Section T-841.

**SPECIAL PROJECT SPECIFICATION
T-835-01F WATERBAR DETAIL**

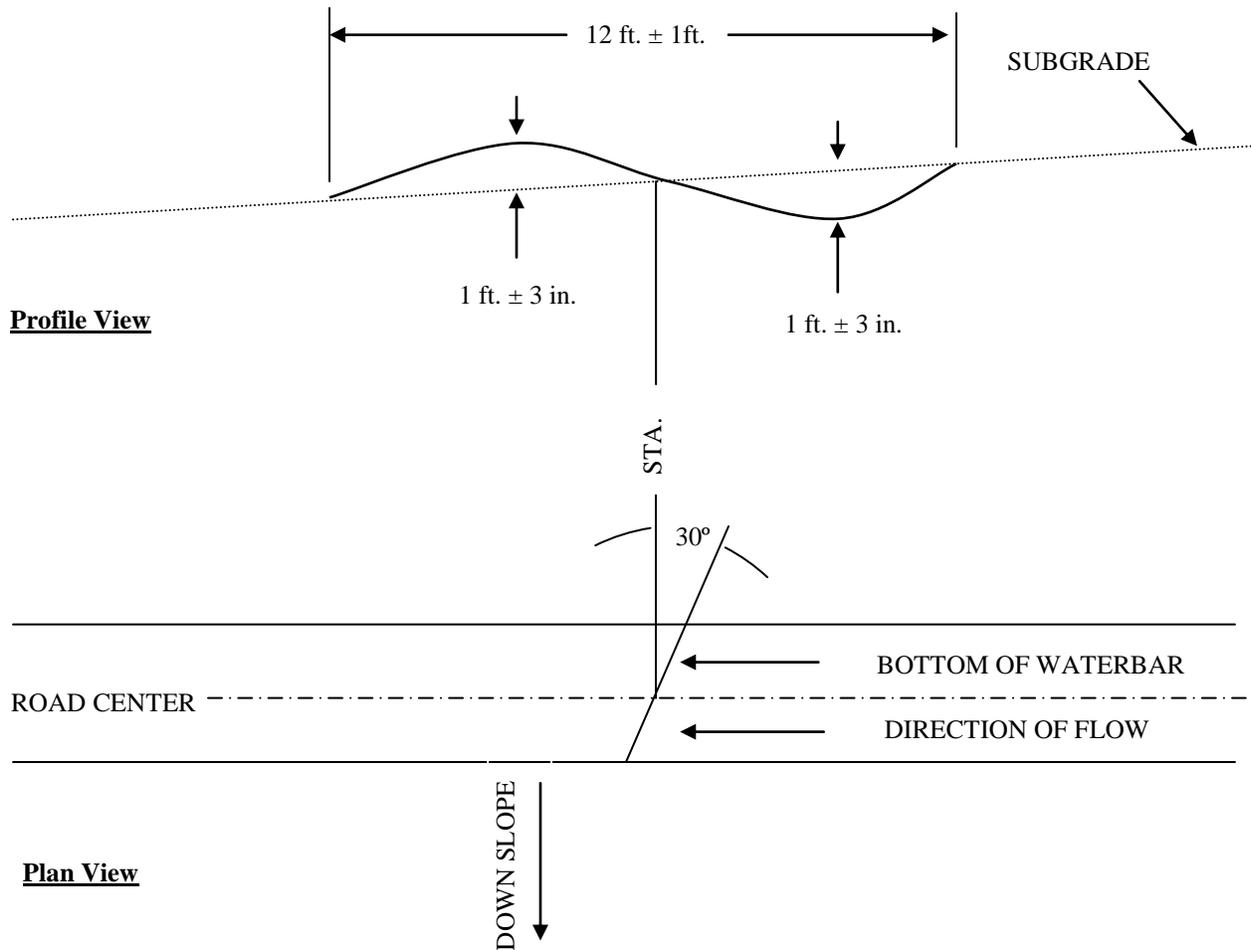
A. Drainage Structure Placement

Waterbar roadbed at intervals based on the below table:

Road Grade	Minimum Waterbar Spacing
0-3%	200 feet
3-6%	175 feet
6-9%	150 feet
9-12%	125 feet
12-15%	100 feet
Greater than 15%	75 feet

B. Typical Waterbar Detail

TYPICAL WATERBAR
(no scale)

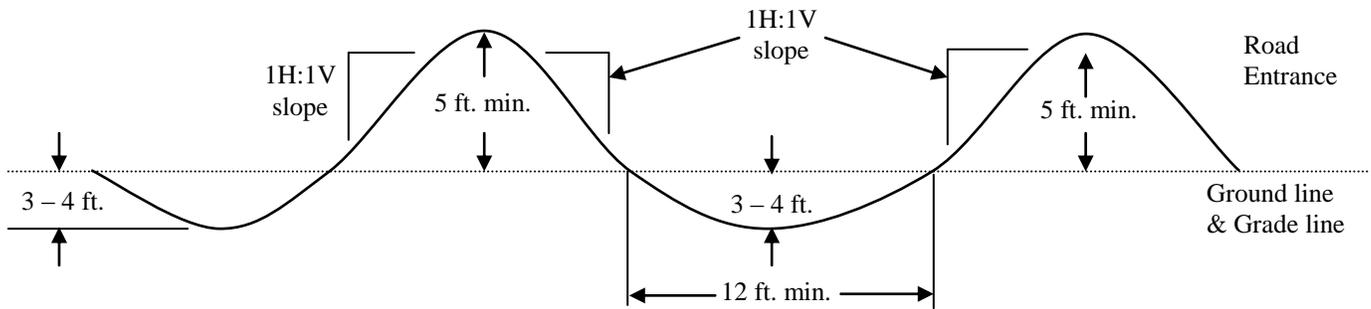


**SPECIAL PROJECT SPECIFICATION
T-835-02F ENTRANCE DEVICES DETAIL**

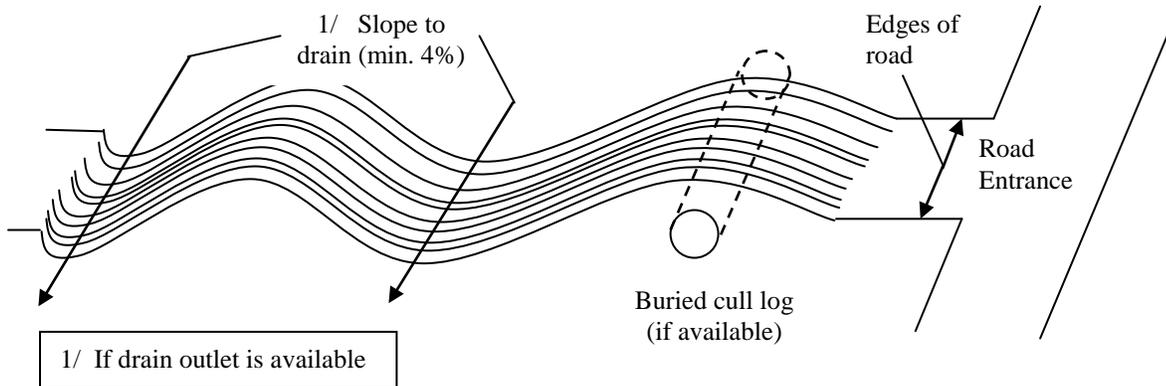
A. Entrance Devices

Any rocks placed in road must allow a minimum 60" clearance for snowmobile passage and any logs placed on roadway must be placed as flat as possible.

TYPICAL EARTH BARRIER
(no scale)



Profile View



Sketch View

T-836 - MAINTENANCE FOR LIMITED USE (05/07)

836.01 Description

This work consists of making limited use roads passable for joint use by Purchaser and high clearance vehicles, and providing drainage from the traveled way and roadbed.

836.02 Maintenance Requirements

A. Traveled Way

Purchaser may smooth or fill existing cross ditches and water bars and by agreement modify existing road junctions to enable vehicle access. Prior to beginning haul and resumption of haul after an extended stoppage:

1. Remove brush, fallen trees, rocks, and other debris from traveled way, including turnouts, turnarounds, and other locations that interfere with needed maintenance as follows:
 - a. No object extending over 4 inches above the road surface shall remain within the 12 feet usable traveled way and 10 feet turnout widths. Center the usable width on the roadbed or position away from the fill slope.
 - b. Cut and remove standing or down trees, logs, brush, and limbs from within the area described in 1 a. above. Remove encroaching limbs to a height of 14 feet above the traveled way surface. Scatter material not meeting utilization standards outside and below the roadbed on the fill side. Limb and remove timber which meets utilization standards or deck at agreed locations.
 - c. Place all removed materials away from drainages.
 - d. During use, maintain drainage structures, including dips, ditches and culverts in a useable condition.
2. Clean and recondition drainage facilities in accordance with: Section T-831 and T-834.

B. Slough and Slides

1. Slough and slides may be left in place, provided surface drainage is provided and at least 12 feet of width is available for vehicle passage.

2. Purchaser may reposition or ramp over slides and slough when the traveled way width is less than 12 feet providing the material is capable of supporting vehicles. Limit out slope to no more than six percent.
3. Reposition slough or slide materials on the roadbed which are not capable of supporting a vehicle to provide the 12 foot width. When directed by the Contracting Officer, slough or slide material will be removed under Section T-832.

C. Slumps and Washouts

1. Drain the roadbed immediately upgrade of slumps and longitudinal cracks to prevent water from entering slump area.
2. Slumps and longitudinal cracks at the edge of the roadbed shall not be considered a part of the usable width. Usable width may be reduced to 10 feet in the area of the slump.
3. Unless the Contractor Officer agrees to material being placed on slumps, ramp the slumps on both ends into undisturbed roadbed to provide at least 10 feet usable width. Use removed materials to guide vehicles to the ramp location or to aid in draining the area.
4. Washouts may be filled with suitable material.

D. Posthaul

At the end of hauling or prior to entering into seasonal shutdowns or a period of extended inactivity:

1. Shape the traveled way and disturbed roadbed to provide functional drainage.
2. Reinstall removed cross ditches and water bars and provide any additional drainage structures necessary to offset changes caused through use and maintenance.
3. Leave roads useable for high clearance vehicles. Remove or reshape purchaser modifications at road junctions to leave the entrance as it was before use, or as agreed at the time of improvement.

T-838 - MAINTENANCE FOR HIGH CLEARANCE VEHICLE USE (05/07)

838.01 Description

This work consists of making limited use roads passable for project use by Purchaser and providing drainage from the traveled way and roadbed.

838.02 Maintenance Requirements

A. Traveled Way

Purchaser may smooth or fill existing cross ditches and water bars and as approved by the Contracting Officer modify existing road junctions to enable vehicle access. The Purchaser may perform the following work prior to beginning haul and resumption of haul after an extended stoppage:

1. Remove brush, fallen trees, rocks, and other debris from traveled way, including turnouts, turnarounds, and other locations that interfere with needed maintenance as follows:
 - a. No object extending over 4 inches above the road surface shall remain within the 12 feet usable traveled way. Center the usable width on the roadbed or position away from the fill slope.
 - b. Cut and remove standing or down trees, logs, brush, and limbs from within the area described in 1(a). Remove encroaching limbs to a height of 14 feet above the traveled way surface. Scatter material not meeting utilization standards outside and below the roadbed on the fill side. Limb and remove timber that meets utilization standards or deck at locations approved by the Contracting Officer.
 - c. Place all removed materials away from drainages.
 - d. During use, maintain drainage structures including dips, ditches and culverts in a usable condition.
2. Clean and recondition drainage facilities in accordance with Section T-831 and T-834.

B. Slough and Slides

1. Slough and slides may be left in place, provided surface drainage is provided and at least 12 feet of width is available for vehicle passage.

2. Purchaser may reposition or ramp over slides and slough when the traveled way width is less than 12 feet providing the material is capable of supporting vehicles. Limit out slope to no more than six percent.
3. Reposition slough or slide materials, which are not capable of supporting a vehicle, on the roadbed to provide the 12 feet width. When directed by the Contracting Officer, slough or slide material will be removed under Section T-832.

C. Slumps and Washouts

1. Drain the roadbed immediately upgrade of slumps and longitudinal cracks to prevent water from entering slump area.
2. Slumps and longitudinal cracks at the edge of the roadbed shall not be considered a part of the usable width. Usable width may be reduced to 10 feet in the area of the slump.
3. Unless the Contracting Officer approves material being placed on slumps, ramp the slumps on both ends into undisturbed roadbed to provide at least 10 feet usable width. Use removed materials to guide vehicles to the ramp location or to aid in draining the area.
4. Washouts may be filled with suitable material.

D. Posthaul

At the end of hauling or prior to entering into seasonal shutdowns or a period of extended inactivity:

1. Shape the traveled way and disturbed roadbed to provide functional drainage.
2. Reinstall removed cross ditches and water bars and provide any additional drainage structures necessary to offset changes caused through use and maintenance.
3. Leave roads useable for high clearance vehicles. Remove or reshape purchaser modifications at road junctions to leave the entrance as it was before use, or as agreed at the time of improvement.

T-842 - CUTTING ROADWAY VEGETATION (10/07)

842.01 Description

This work consists of cutting all vegetative growth, including trees and other vegetation less than 4 inches in diameter measured 6 inches above the ground, on roadway surfaces and roadsides.

842.02 Maintenance Requirements

A. General

1. Cut brush, trees, and other vegetation within each area treated to a maximum height of 6 inches above the ground surface or obstruction such as rocks or existing stumps. When work is performed under this Section, remove all limbs which extend into the treated area, or over the roadbed, to a height of 14 feet above the traveled way surface elevation.
2. Items to remain will be DESIGNATED ON THE GROUND.
3. Work may be performed either by hand or mechanically unless specifically shown in the Road Listing. Self-propelled equipment is not allowed on cut and fill slopes or in ditches.
4. Correct damage to trunks of standing trees caused by Purchaser's operation either by treatment with a commercial nursery sealer or by removing the tree as directed by the Contracting Officer.
5. Limb trees within the cutting limits which are over 4 inches - measured at 6 inches above the ground in lieu of cutting.
6. When trees are limbed, cut limbs within 4 inches of the trunk.

B. Cutting Side Vegetation

1. Show the width of vegetation to be removed in the Road Listing.
2. Unless otherwise included in the SUPPLEMENTAL SPECIFICATIONS or DESIGNATED ON THE GROUND:
 - a. Commence work at the edge of the traveled way and proceed away from the road centerline.
 - b. Roads without a defined traveled way: The starting point for cutting will be marked on the ground or defined in the SUPPLEMENTAL SPECIFICATIONS.

3. The points for establishing cutting limits are as follows:
 - a. Fill and daylighted (wide roadbed) section cutting commences at the edge of the traveled way and proceeds away from the road center line.
 - b. Drainage ditched section cutting commences at the bottom of the existing ditch and proceeds away from the road center line. Cutting on ditch foreslopes is not required.
 - c. Unditched cut section cutting commences at the intersection of the cutbank and the roadbed and proceeds away from center line.
4. Provide transitions between differing increments of cutting width. Accomplish transitions in a taper length of not less than 50 feet nor more than 70 feet.

C. Debris

1. Materials resulting from the cutting operation in excess of 12 inches in length or 3 inches in diameter is not allowed to remain on roadway slopes within the treated area, in ditches, or within water courses.
2. Remove limbs and chunks in excess of 3 inches in any dimension from the traveled way and shoulders.
3. Remove limbs and chunks in excess of 3 inches in any dimension from the traveled way and shoulders.

D. Invasive Species of Concern

Where DESIGNATED ON THE GROUND, included in the ROAD LISTING, SHOWN ON THE DRAWINGS or as ordered by the Contracting Officer invasive species of concern prevention practices shall be followed as listed below.

Invasive Species of Concern Prevention Practices
N/A

T-891 - WATER SUPPLY AND WATERING (05/07)891.01 Description

This work consists of providing facilities to furnish an adequate water supply, hauling and applying water.

891.02 Materials

If the Purchaser elects to provide water from other than designated sources, the Purchaser is responsible to obtain the right to use the water, including any cost for royalties involved. Suitable and adequate water sources available for Purchaser's use under this contract are designated as follows:

<u>Map</u> <u>Key No.</u>	<u>Location</u> <u>Road</u>	<u>Location</u> <u>Milepost</u>	<u>Use</u> <u>Restrictions</u>
	3000500 (Aeneas Cr)	0.10	None
	3000500 (Bailey Creek)	4.00	None
	3000600 (Bailey Creek)	2.50	None

891.03 Equipment

- A. Positive control of water application is required. Equipment shall provide uniform application of water without ponding or washing.
- B. An air gap or positive anti-siphon device shall be provided between the water source and the vehicle being loaded if the vehicle has been used for other than water haul, if the source is a domestic potable water supply, or the water is used for tank mixing with any other materials.
- C. The designated water sources may require some work prior to their use. Such work may include cleaning ponded areas, installing temporary weirs or sandbags, pipe repair, pump installation, or other items appropriate to the Purchaser's operations. Flowing streams may be temporarily sandbagged or a weir placed to pond water, provided a minimum flow of 5 cu. ft/sec is maintained. Obtain approval from the Contracting Officer on improvements for sandbags or weirs prior to placement.

SCHEDULE PURSUANT TO CT6.315# - SALE OPERATION SCHEDULE (06/1994)

<u>Harvest Unit</u>	<u>Operating Conditions</u>	<u>Purpose</u>
027, 045,046	If nesting raptors are present, then all operations permitted from August 16 through March 14 only. Forest Service requires two weeks notice to determine if nesting is taking place.	Minimize disturbance to nesting and fledging wildlife.

TABLE PURSUANT TO CT6.41# - SPECIFIC REQUIREMENTS (01/2000)

FELLING EQUIPMENT	HARVEST UNITS
<p>Mechanized felling equipment allowed on Single-Pass trails spaced no closer than 40 feet apart, except where trails converge at the landing.</p>	<p>All Units</p>
FELLING METHODS	HARVEST UNITS
<p>Yard Tops Attached (YTA) to the landing with the last log. No limbs or tops can be severed in the harvest unit (see CT6.74#).</p> <p>No tree length logging (NTL), sever tops in unit</p>	<p>All Units except 038, 041, 042, 047, 048, 055, 307</p> <p>Units 038, 041 042, 047, 048, 055, 307</p>
BUCKING METHODS	HARVEST UNITS
<p>Within 300 feet of private land all recently felled or wind thrown green Douglas Fir trees and logs at least 8 feet long with small diameters(outside bark) greater than 12" would be removed. As an alternative, logs or log segments from green Douglas-Fir trees can be bucked into lengths not to exceed 24" and left in place.</p>	<p>001, 002, 008, 025, 027, 300,</p> <p>Within all of Units 019, 301</p>
PROTECT REGENERATION	HARVEST UNITS
<p>Protect understory Ponderosa Pine</p>	<p>Units 001, 002, 008, 009, 010, 011, 014, 019, 023, 025, 027, 031, 032, 033, 034, 035, 037, 044, 045, 046, 051, 052, 053, 056, 300, 301, 306</p>

TABLE PURSUANT TO CT6.42# - YARDING/SKIDDING REQUIREMENTS (06/2010)

YARDING/SKIDDING REQUIREMENTS	HARVEST UNITS
Requirements applicable to Ground-Based Logging Units	
Tractor logging required	All Units
The location of all landings and skid trails shall be designated by the Purchaser's Representative and approved by the Timber Sale Administrator prior to timber felling.	
Skid trails will be located on old skid trails wherever possible.	
Adequate rub trees will be left to protect the residual stand. Rub trees will be removed after other included timber has been skidded if designated by the Sale Administrator.	
Skid trails must be felled prior to the surrounding timber.	
Skid trail width must not exceed 12 feet after use.	
From June 1 through October 15 all fences cut for harvest and/or yarding purposes must be repaired within 1 day after yarding activity is accomplished in each unit.	Units 001,002, 019, 025, 027, 046, 301
Protect understory Ponderosa Pine	Units 001, 002, 008, 009, 010, 011, 014, 019, 023, 025, 027, 031, 032, 033, 034, 035, 037, 044, 045, 046, 051, 052, 053, 056, 300, 301, 306

TABLE PURSUANT TO CT6.42# - YARDING/SKIDDING REQUIREMENTS (06/2010)
(Continued)

YARDING/SKIDDING REQUIREMENTS	HARVEST UNITS
Requirements applicable to Units with Sensitive Soils	
<i>Winter Logging Option for Sensitive Soils</i>	
<p>Winter Logging Guidelines - Winter operations are allowed when a snow pack or combination of snow pack and frozen ground is sufficient to prevent soil damage. Rutting, mixing of soil and snow, or visible displacement of the soil are signs that soil compaction or displacement are taking place. As a guideline, 8 inches of either compacted snow, hard frozen ground, or a combination of compacted snow and hard frozen ground can provide adequate protection. Trails will be constructed prior to operations to allow the soil to freeze. In order to maintain the strength of the bearing surface, air temperatures should generally average less than 25 degrees Fahrenheit overnight and no more than 35 degrees Fahrenheit during the day.</p>	021, 027, 034, 045, 046, 048, 052, 307
Skid trails shall be placed at least 40 feet apart.	
<i>Summer Logging Option for Sensitive Soils</i>	
Harvest operations will be conducted during periods of sufficient soil moisture to provide adequate soil stability.	
Single-Pass Feller-Buncher trails shall be placed at least 40 feet apart. Multiple Pass Skid trails shall be placed at least 100 feet apart.	
<p>In addition to the <i>SUMMER LOGGING OPTION FOR SENSITIVE SOILS</i> requirement above, on soils prone to detrimental compaction, restoration of compacted skid trails will be required except where on slopes greater than 35 percent, or where excessive surface rock exists. Restoration will be required on portions of trails with significant compaction (consisting of areas where rutting depth is 6 inches or more) and will entail fracturing and loosening of the compacted layers to a depth of at least 12 to 15 inches. The equipment or methods used will avoid creating furrows and turning up roots and rocks. In addition, areas with significant displacement shall be further restored by re-contouring, roughening the soil surface, and/or placing vegetation and organic material on the trail as needed to prevent erosion.</p>	021, 027, 034, 045, 046, 048, 052, 307

TABLE PURSUANT TO CT6.42# - YARDING/SKIDDING REQUIREMENTS (06/2010)
(Continued)

YARDING/SKIDDING REQUIREMENTS	HARVEST UNITS
<p>Requirements applicable to Units without Sensitive Soils</p>	
<p><i>Winter Logging Units (Required)</i></p>	
<p>Winter Logging Guidelines - Winter operations are allowed when a snow pack or combination of snow pack and frozen ground is sufficient to prevent soil damage. Rutting, mixing of soil and snow, or visible displacement of the soil are signs that soil compaction or displacement are taking place. As a guideline, 8 inches of either compacted snow, hard frozen ground, or a combination of compacted snow and hard frozen ground can provide adequate protection. Trails will be constructed prior to operations to allow the soil to freeze. In order to maintain the strength of the bearing surface, air temperatures should generally average less than 25 degrees Fahrenheit overnight and no more than 35 degrees Fahrenheit during the day.</p>	<p>001, 002, 015, 017, 019, 037, 058, 301</p>
<p>Skid trails shall be placed at least 40 feet apart.</p>	

**APPLICATION SCHEDULE PURSUANT TO CT6.6# -
EROSION CONTROL AND SOIL TREATMENT BY PURCHASER (07/2001)**

PAYMENT UNIT OR UNIT NUMBER	AREAS A) SKID TRAILS B) FIRELINES C) TEMP. ROADS D) LANDINGS E) OTHER	SEED		FERTILIZER		MULCH	
		APPLICATION		APPLICATION		APPLICATION	
		<u>1/</u> SPECIES MIXTURE	LBS/AC	<u>2/</u> TYPE	LBS/AC	<u>3/</u> TYPE	LBS/AC
ALL UNITS	A, C, D	Sheep Fescue (Covar)	3.0				
		Streambank Wheatgrass (Sodar)	4.0				
		Yarrow (<i>Achillea millefolium</i>)	0.25				
		Sandberg Bluegrass	1.0				
		Blue Wild Rye	4.0				

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.

SPECIFICATIONS PURSUANT TO CT6.74# -
SLASH TREATMENT REQUIREMENTS (02/2002)

Piling of Slash at Landings and Decking Areas

In accordance with Provision CT6.74#, Purchaser shall pile slash by machine or hand on all landings or decking areas.

Piles shall be as compact as possible and shall be free of non-combustible material.

Piles will be located so that burning will cause minimal damage to standing green trees. Normally, this will be constructed to be at least 20 feet from the drip line of any standing green tree. Avoid placing landings within 300 feet of private property if feasible.

Machine used for piling shall be equipped with a brush blade, rake grapple or tongs. The teeth on the blade or rake must extend at least 12 inches below the lower edge of the blade or rake, and must have a maximum of 18 inches and a minimum of 16 inches spacing between the teeth. Total blade or rake width shall not exceed 10 feet.

A loader or similar machine equipped with a grapple or tongs may be necessary to accomplish the objectives of this specification.

Piling of Tops Yarded Under CT6.41#

In accordance with CT6.74#, Purchaser shall pile tops yarded pursuant to CT6.41# at landings and decking areas.

Purchaser shall pile tops at landings and decking areas in accordance with the specifications for Piling of Slash at Landings and Decking Areas.

In order to maintain minimum landing and decking area size, tops are to be piled on a continuous basis, concurrent with skidding/yarding operations.

Disposal of Temporary Road Slash

In accordance with CT6.74#, Purchaser shall dispose of slash created by the construction of temporary roads, as agreed to by the Forest Service.

Slash may be scattered, piled or windrowed as agreed to. Agreement on alternative methods of disposal must be reached prior to their implementation.

Piling will be done in accordance with the specifications for Piling of Slash at Landings and Decking Areas.

Slash shall not be buried beneath temporary roads.

Slash piled pursuant to the construction of temporary roads will be burned by the Forest Service.