

PART III: EXHIBITS

State Timber Sale Contract
No. SW-341-2020-GF7918-07
BKS GNA

EXHIBIT B

629-Form 341-203
Revised 5/18

OREGON DEPARTMENT OF FORESTRY

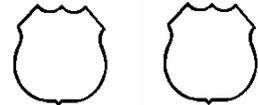
TIMBER SALE OPERATIONS PLAN

(See Page 2 for instructions)

Date Received by STATE: _____

(5) State Brand Information (complete):

(1) Contract No.: SW-341-2020-GF7918-07



(2) Sale Name: BKS GNA

(3) Contract Expiration Date: December 31, 2023

Project Completion Dates: _____

(4) Purchaser: _____

(6) Purchaser Representatives:

Projects: _____	Phone: _____	Cell/Other Phone: _____	Email: _____
Projects: _____	Phone: _____	Cell/Other Phone: _____	Email: _____
Projects: _____	Phone: _____	Cell/Other Phone: _____	Email: _____
Projects: _____	Phone: _____	Cell/Other Phone: _____	Email: _____
Logging: _____	Phone: _____	Cell/Other Phone: _____	Email: _____
Logging: _____	Phone: _____	Cell/Other Phone: _____	Email: _____
Logging: _____	Phone: _____	Cell/Other Phone: _____	Email: _____
Logging: _____	Phone: _____	Cell/Other Phone: _____	Email: _____

(7) State Representatives:

Projects: _____	Phone: _____	Cell/Other Phone: _____	Email: _____
Logging: _____	Phone: _____	Cell/Other Phone: _____	Email: _____

(8) Name of Subcontractors & Starting Dates:

Projects: No(s) _____ - _____	Date: _____	Phone: _____
No(s) _____ - _____	Date: _____	Phone: _____
No(s) _____ - _____	Date: _____	Phone: _____
No(s) _____ - _____	Date: _____	Phone: _____
Logging: Felling _____	Date: _____	Phone: _____
Yarding: _____	Date: _____	Phone: _____

(9) Comments: _____

(10) Operations Map: Attach a copy of timber sale Exhibit A or other suitable map which plainly shows the items listed on the instruction sheet.

EXHIBIT B

INSTRUCTION SHEET FOR OPERATIONS PLAN

SUBMIT ONE COPY OF PLAN TO STATE

Operations shall be limited to the work shown in the plan until a revised plan or supplemental plan is submitted covering additional work. Compliance with this plan is not in lieu of compliance with any federal requirements related to the federal Endangered Species Act. If STATE has prepared a required Forest Practices Act (FPA) "Written Plan" for operations, PURCHASER shall comply with all provisions of the Written Plan.

Explanation of Item No. (from Page 1)

- (5) All sales require you to use a brand furnished by STATE. If the State brand has not been assigned when the plan is submitted, it will be furnished and assigned later. Complete drawing. If more than one brand is assigned to the sale, complete both drawings.
- (6) The contract requires you to have a designated representative available on the sale area or work location who is authorized to receive in your behalf any notice or instruction given by STATE and to take action in regard to performance under the contract. If logging and project work is widely separated, a representative is required for each.
- (7) The STATE representative will be designated when your plan is approved and is the person who will inspect and issue instructions regarding performance.
- (8) Show names of subcontractors to be used for any or all phases of the operations. If subcontractors are not known, or are changed later, give notification to the STATE representative prior to commencement of work by subcontractor.

Show projected dates for commencement of both projects and logging. If projected dates need to be changed at a later date, notification must be given to the STATE representative by supplemental plan or otherwise, prior to commencement of such operations.

- (10) The STATE representative will furnish extra copies of Exhibit A of the contract for your use in preparing the operations map. The map shall use the following legend and show:
 - 1. Landing locations, approximate setting boundaries, and probable sequence of logging the settings. Number the settings in sequence.
 - 2. Locations of spur roads planned for construction, other than those required by the timber sale contract. Provide spur road specifications.
 - 3. Location of proposed tractor yarding roads. Show if and how marked on the ground.
 - 4. Location of temporary stream crossings.
 - 5. List the sequence of performing project work.
 - 6. Location of rock sources - attach pit development plans.

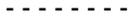
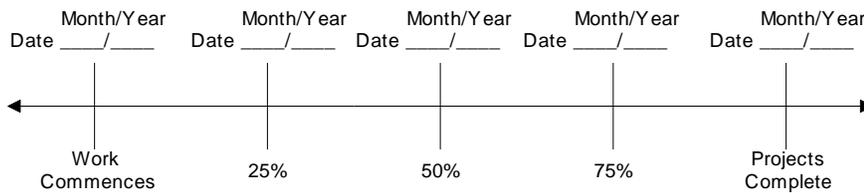
-  Cable Landing, with numbers for sequence.
-  Tractor Landing with alphabetical sequence.
-  Approximate setting boundary.
-  Spur truck roads.
-  Tractor yarding roads.
-  Temporary stream crossings.

EXHIBIT B
 OPERATIONS PLAN

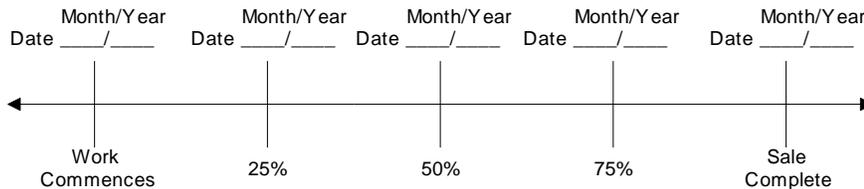
Completion Timeline

Indicate on the appropriate timeline below, the dates by which you plan to complete the work as required under this contract. The purpose of this section is to develop a plan that will ensure you complete the work as required, and meet the interim completion date(s) and contract expiration date. This plan is incorporated and made a part of the contract. When, in the opinion of STATE, operations are not commencing in a manner that meets the intent of this plan, you may be placed in violation of contract and your operations suspended until an amended plan is submitted and approved by STATE.

Projects



Harvest & Other Requirements



The Federal Endangered Species Act (ESA) prohibits a person from taking any federally listed threatened or endangered species. Taking under the federal ESA may include alteration of habitat. STATE's approval of this plan does not certify that PURCHASER's operation under the plan is lawful under the federal ESA. As provided in the timber sale contract, PURCHASERS must comply with all applicable state, federal, and local laws.

PURCHASER's compliance with this plan is not in lieu of compliance with any federal requirements related to the federal Endangered Species Act.

APPROVED: Date: _____

SUBMITTED BY:
 PURCHASER

STATE OF OREGON - DEPARTMENT OF FORESTRY

 Title _____

 Title _____

Original: Salem
 cc: District File
 Unit
 Purchaser
 Operator
 (Purchaser Representative) _____

EXHIBIT C – SAWMILL GRADE (WESTSIDE SCALE)

SCALING INSTRUCTIONS -- LOCATION APPROVAL -- BRAND INFORMATION

(1) ORIGINAL REGISTRATION Date _____
 REVISION NUMBER _____ Date _____
 CANCELLATION Date _____

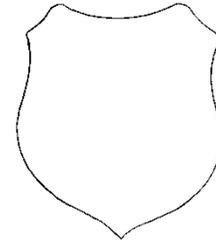
COUNTY: Josephine

(10) STATE CONTRACT NUMBER:

SW-341-2020-GF7918-07

(11) STATE BRAND REGISTRATION NUMBER:

(12) STATE BRAND INFORMATION (COMPLETE):



(2) TO: _____
 (Third Party Scaling Organization)

(3) FROM: SWO Grants Pass Phone (541) 474-3152
 (State Forestry District)

Address 5375 Monument Dr., GP, OR 97526

(4) PURCHASER: _____

Mailing Address: _____

Phone Number: _____

(5) MINIMUM SCALING SPECIFICATIONS	
SPECIES	MINIMUM NET VOLUME
Conifers	10
Hardwoods	10

* Apply minimum volume test to whole logs over 40' Westside

(13) PAINT REQUIRED: YES

COLOR: Orange

(6) WESTSIDE SCALE: YES NO
 Use Region 6 actual taper rule. Logs over 40'.

(7) Weight Scale Sample

(14) SPECIAL REQUESTS (Check applicable)	
PEELABLE CULL (all species)	<input type="checkbox"/>
NO DEDUCTIONS ALLOWED FOR MECHANICAL DAMAGE	<input checked="" type="checkbox"/>
ADD-BACK VOLUME - Deductions due to delay	<input checked="" type="checkbox"/>
OTHER: _____	

(8) APPROVED SCALING LOCATIONS (as shown on the ODF Approved Locations web-site)	Species	Yard	Truck	Weight

(15) REMARKS _____

Operator's Name (Optional inclusion by District): _____

(16) SIGNATURES:

 Purchaser or Authorized Representative Date

 State Forester Representative Date

 State Forester Representative PRINT NAME

(9) SALE NAME: BKS GNA

Notify the District within one hour when branding or painting is inadequate for quick identification, the receipts are missing, not correctly or completely filled out, and/or when logs presented for scaling are impossible to scale accurately.

Distribution (See specific instructions on pg. 2): ORIGINAL: Salem / COPIES: TPSO, Approved Scaling Location, Purchaser, District, Mgmt. Unit

EXHIBIT C – SAWMILL GRADE
INSTRUCTIONS FOR FORM 343-307a (rev. 11/11)

- (1) Check appropriate box. REVISION NUMBER requires comments. CANCELLATION requires logging and hauling to be complete, recall branding hammers, date and sign where indicated, write diagonally across page "CANCEL", and send to TPSO.
- (2) Designate Third Party Scaling Organization (TPSO).

Columbia River Log Scaling & Grading Bureau
P.O. Box 7002, Eugene, OR 97401
Phone: (541) 342-6007 Fax: (541) 342-2631
Email: services@crsls.com

Pacific Rim Log Scaling Bureau, Inc.
8288 28th Court North East, Lacey, WA 98516
Phone: (360) 528-8710 Fax: (360) 528-8718
Email: office@prlsb.com

Mountain Western Log Scaling & Grading Bureau
P.O. Box 580, Roseburg, OR 97470
Phone: (541) 673-5571 Fax: (541) 672-6381
Email: info@mwlsgb.com

Yamhill Log Scaling & Grading Bureau
P.O. Box 709, Forest Grove, OR 97116
Phone: (503) 359-4474 Fax: (503) 359-4476
Email: yamhill@attglobal.net

Northwest Log Scalars, Inc
5526 NE 122nd Ave, Portland, OR 97230
Phone: (503) 254-0600 Fax: (503) 408-0919
Email: info@nwlogscalars.com

Pacific Log Scaling & Grading Bureau, Inc.
P.O. Box 23939, Portland, OR 97281
Phone: (503) 684-5599 Fax: (503) 639-4880
Email: PacLogScale@aol.com

- (3) State District office, address and phone.
- (4) Enter Purchaser's business name, address, and phone number as it appears on the Contract.
- (5) Minimum Scaling Specifications.
- (6) Westside – Region 6 actual taper segment scale. Check Yes or No. Special Service Rules on file with TPSO. See: Segment Scaling and Grading of Long Logs -- All Species -- State Forestry Department Scaling Practices (Westside).
- (7) Weight Scale Sample – Check box if sale is to be a Weight Scale Sample. All specifics for handling, scaling and processing will be attached or explained in the Remarks section Item (15).
- (8) Show scaling locations only applicable to TPSO. Location name should appear as it does on the ODF Approved Scaling Location web site: http://www.odf.state.or.us/DIVISIONS/management/asset_management/ScalingLocation.asp Locations with scaling and processing directions specific to their location should be on a separate form. Species should be identified if not capable of receiving "all" species. Check appropriate box for either: yard, truck scale, or weight. Refer to the web site listed above for the locations approval status.
- (9) Enter sale name and county.
- (10) Enter sale Contract number.
- (11) Enter Oregon's State Brand Registry Number **(REQUIRED)**.
- (12) Show brand assigned to timber sale. One brand only. If more than one brand is assigned to the sale: (1) make a separate form for each brand and (2) on each form, explain and show other brand(s) in the Remarks section Item (15).
- (13) Check yes for Paint Required and designate "Orange" for color. Non required removal volumes may sometimes require blue paint.
- (14) Special Requests. These are requests that will be applied to ODF timber sales. All boxes applicable to the timber sales designated in the Exhibit C form must be "marked." If "Other" is indicated, it must contain a description and any necessary comments.
- (15) Use this space to designate any weight conversion factors, per load volumes, weight scale sample instructions or any other explanations to clarify scaling, processing and/or mailing requirements. If additional scaling locations are approved, revise original or current form showing all (old and new) locations. Check REVISION box at top of form and explain under remarks. Route as indicated.
- (16) Require purchaser to sign and date completed form in addition to State Forester Representative, sign and print name on the form.

Salem Distribution Instructions: Original will be mailed to Salem after it is electronically scanned and placed in the Salem transfer drive <\\WPODFILL01\Transfer\ScalingInstructions> or e-mailed directly to scaling@odf.state.or.us. Scaling instructions for each brand should be scanned separately, for each approved TPSO.

Distribution (See specific instructions on pg. 2): ORIGINAL: Salem / COPIES: TPSO, Approved Scaling Location, Purchaser, District, Mgmt. Unit

EXHIBIT C – PULP SORT
INSTRUCTIONS FOR FORM 343-307b (rev. 11/11)

- (1) **Must Complete.** Check appropriate box. REVISION NUMBER requires comments in the Remarks Section (13). CANCELLATION requires logging and hauling to be complete, recall branding hammers, date and sign where indicated, write diagonally across page "CANCEL", and send to TPSO.
- (2) **Must Complete.** Approved Pulp Processing Facility. Write in as written in the Approved Log Delivery Location http://www.odf.state.or.us/DIVISIONS/management/asset_management/ScalingLocation.asp
- (3) **Must Complete.** State Forestry District and District Phone Number.
- (4) **Must Complete.** Purchaser's business name as it appears on the Contract.
- (5) **Must Complete.** Third Party Scaling Organization that will be processing the weight tickets, mailing address, and phone number.

Columbia River Log Scaling & Grading Bureau
P.O. Box 7002, Eugene, OR 97401
Phone: (541) 342-6007 Fax: (541) 342-2631
Email: services@crls.com

Pacific Rim Log Scaling Bureau, Inc.
8288 28th Court North East, Lacey, WA 98516
Phone: (360) 528-8710 Fax: (360) 528-8718
Email: office@prlsb.com

Mountain Western Log Scaling & Grading Bureau
P.O. Box 580, Roseburg, OR 97470
Phone: (541) 673-5571 Fax: (541) 672-6381
Email: info@mwlsgb.com

Yamhill Log Scaling & Grading Bureau
P.O. Box 709, Forest Grove, OR 97116
Phone: (503) 359-4474 Fax: (503) 359-4476
Email: yamhill@attglobal.net

Northwest Log Scalers, Inc .
5526 NE 122nd Ave, Portland, OR 97230
Phone: (503) 254-0600 Fax: (503) 408-0919
Email: info@nwlogscalers.com

Pacific Log Scaling & Grading Bureau, Inc.
P.O. Box 23939, Portland, OR 97281
Phone: (503) 684-5599 Fax: (503) 639-4880
Email: PacLogScale@aol.com

- (6) **Must Complete.** Big end log not to exceed _____ inches. Big end of log is not to exceed 2 inches greater than the minimum removal specifications in the contract. Example: Minimum removal specifications 6 inches and 20 board feet, then the Big end of log not to exceed 8 inches. When conifer and hardwood removal specifications are different, use the smaller removal diameter to determine this specification.
- (9) **Must Complete.** Enter sale name and county. If more than one county write in all the counties that the sale is located in.
- (10) **Must Complete.** Enter sale Contract number.
- (11) **Must Complete.** Enter Oregon's State Brand Registry Number **(REQUIRED)**.
- (12) **Must Complete.** Show brand assigned to timber sale. One brand only. If more than one brand is assigned to the sale: (1) make a separate form for each brand and (2) on each form, explain and show other brand(s) in the Remarks section Item (13).
- (13) Use this section to list any special instructions or the reason for any revisions in section item (1).
- (14) **Must Complete.** Purchaser required to sign and date completed form in addition to State Forester Representative, sign and print name on the form.

Salem Distribution Instructions: Original will be mailed to Salem after it is electronically scanned and placed in the Salem transfer drive \\WPODFILL01\Transfer\ScalingInstructions or e-mailed directly to scaling@odf.state.or.us . Scaling instructions for each brand should be scanned separately, for each approved TPSO.

EXHIBIT D

FOREST ROAD SPECIFICATIONS

SUBGRADE WIDTH	SURFACED WIDTH	POINT TO POINT	STATION TO STATION	DRAINAGE
12 feet	-	B to D	0+00 to 32+00	Crowned/Outslope
12 feet	-	E to F	0+00 to 36+00	Outsloped

CLEARING. This work shall consist of clearing, removing, and disposing of all trees, Snags, Down Timber, brush, surface objects, and protruding obstructions within the clearing limits.

All danger trees, leaners, and Snags outside the clearing limits which could fall and hit the road shall be felled.

CLEARING CLASSIFICATION.

New Construction - Where clearing limits have not been marked, the clearing limits shall extend 5 feet back of the top of the cutslope and 5 feet out from the toe of the fill slope, or as directed by STATE.

Improvement - the "Road Brushing Specifications" in Exhibit D T-842 shall apply

GRUBBING. This work shall consist of the removal or digging out of stumps and protruding objects.

All stumps shall be completely removed within the limits of required grubbing. Stumps overhanging cut slopes shall be removed. Grubbing debris shall not be placed or permitted to remain in or under any road embankment sections.

GRUBBING CLASSIFICATION.

New construction - from the top of the cut slope to the toe of the fill.

Improvements and reconstructions - 4 feet back from the shoulder of the subgrade or ditch, whichever is widest, or as marked in the field.

CLEARING AND GRUBBING DISPOSAL. Clearing and grubbing debris shall not be placed or permitted to remain in or under any road embankment sections. Clearing and grubbing debris shall be left in a stable location, and not left lodged against standing trees. Clearing and grubbing debris may be scattered through openings in the timber outside of the cleared right-of-way, except for the following areas where debris shall be fully contained and hauled to a designated waste area:

- Where end-haul is required
- On side slopes exceeding 60 percent
- On unstable areas
- In any stream channel (Type F, N or D) or where material may enter the stream channel.

Clearing, grubbing, and associated disposal shall be completed prior to subgrade approval.

EXHIBIT D

FOREST ROAD SPECIFICATIONS

EXCAVATION. Excavation and grading shall not be done when weather and/or ground conditions are such that damage will result to existing subgrade or cause excessive erosion.

Excavation shall conform to STATE-specified lines, grades, dimensions, and plans when provided. Unless road plans show otherwise, all roads shall be on a balanced cross section, except when the slope is over 60 percent, the road shall be on full bench for the width specified.

Suitable excavated material shall be used for the formation of fills, shoulders, and drainage structure backfills. Embankment materials shall be free of woody debris, brush, muck, sod, frozen material, and other deleterious materials.

Sidecast includes any road generated excess excavation material which is not essential as part of the road prism, is not compacted, and is below the roadway. Sidecast shall not be placed where it will enter a stream course. Leaving sidecast below the road is only permissible if specifically allowed in "Full Bench and End Haul Requirements" in this Exhibit.

All fills shall be machine compacted according to the "Compaction and Processing Requirements" in this Exhibit.

ROAD WIDTH LIMITATIONS. PURCHASER shall obtain advance written approval from STATE to construct the road to a greater width than specified. Extra subgrade width shall be required for:

Fill Widening. Add to each fill shoulder 1 foot for fills 3 feet to 6 feet high; 2 feet for fills over 6 feet high.

Curve Widening. Widen the inside shoulder of all curves as specified in the plans or as follows: 400 divided by the radius of the curve equals the amount of extra width.

DRAINAGE

Subgrade. Subgrade shall be crowned, outsloped, or insloped at 4 to 6 percent as shown on the "Forest Road Specifications" table in this Exhibit.

TURNOUTS. Increase roadbed width an additional 8 feet for both subgrade and surfacing. Length shall be at least 25 feet, plus 25-foot approaches at each end.

Location: Intervisible but not greater than 750 feet apart).

SLOPES

Solid Rock

Fractured Rock

Soil - side slopes 50% and over

Soil - side slopes less than 50%

Cut Slopes

Vertical to ¼ :1

¼ :1

½ :1

¾ :1

Fill Slopes

1½ :1

1½ :1

Top of cut slope shall be rounded.

LANDINGS. Landings shall be constructed as posted in the field, no less than 50 feet wide and no more than 70 feet wide unless otherwise approved by STATE. Surface is to be outsloped for drainage with general grade no more than 3 percent. Surface as shown in the "Road Surfacing" table in this Exhibit.

TURNAROUNDS. Increase subgrade width an additional 20 feet for a length of 20 feet at locations marked in the field.

SEASONAL WINTERIZATION. All unsurfaced roads or unfinished subgrades shall be waterbarred in accordance with the specifications in Exhibit D (T-835), and blocked from vehicular traffic prior to October 31, annually and as directed by STATE.

EXHIBIT D
 FOREST ROAD SPECIFICATIONS

GENERAL ROAD IMPROVEMENT INSTRUCTIONS:

- (1) Subgrade Preparation and Application of Surfacing Rock.
 - (a) Cut out all potholes and/or washboard sections from the existing surfacing.
 - (b) Apply required patching and leveling rock, as directed by STATE.
 - (c) Process (grade and mix) the existing surface and added base rock. Provide for a crown, outslope, or inslope of 4 to 6 percent, and compact in accordance to the “Compaction and Processing Requirements” in this Exhibit D.
 - (d) Upon completion of above required work, apply, process, and compact surfacing rock in accordance to this Exhibit D and listed below.
 - (e) 50 yards of gray spot rock will be placed on the gravel portion of the 20 Road as directed by State.

SPECIFIC ROAD IMPROVEMENT INSTRUCTIONS

<u>Road</u>	<u>Work Description</u>
20	Follow instructions in T-811 Blading to prep the site by blading out washboards and pot holes.
20	Follow instructions in T813 to water and place rock on roads.
20	See Compaction options in T-813.
20	Follow Crushed Rock Specifications in T-813 “Gradation and quality requirements of Section 703 “Standard Specifications for Construction of Roads and Bridges on Federal Highway Projects.”
20	Perform dust abatement as needed.
B-D, e-F	Clear and Grub road right-of-way. Blade 12’ running surface.

EXHIBIT D
FOREST ROAD SPECIFICATIONS

GENERAL ROAD IMPROVEMENT INSTRUCTIONS:

- (1) Timber Removal. Remove all unmarked trees within a 30 foot total road right of way as specified in Section 2210, Designated Timber and marked on the ground with orange leave tree paint.
- (2) Roadside Brushing. Conduct roadside brushing as specified in Exhibit D (T-842).
- (3) Bank Slough Removal. Excavate all bank slough. Bank slough material shall not be pulled across existing surfacing rock. Excavated material shall be hauled to the designated waste areas as marked in the field and/or designated on Exhibit A.
- (4) Sidecast Pullback. Developed slopes shall be pulled back to a 1½:1 slope or to natural ground contours. The beginning position for sidecast pullback shall be no greater than 20 feet vertical distance from the existing road surface, in accordance with Exhibit D (T-832). Sidecast material remaining greater than 20 feet below the road shall be tapered and sloped for drainage.
- (5) Waste areas shall be uniformly sloped and compacted for drainage.

EXHIBIT D
 ROAD SURFACING

TYPE OF ROCK	SIZE OF ROCK	COMPACTED DEPTH	Road	Road Miles for Patch Rock	APPROX. TOTAL TRUCK MEASURE (VOLUME)
Gray	3/4" - 0	2"	20	As directed by State	50 (CY)

ROCK TOTALS

ROCK TOTALS (CY)	Type	Roads	Cubic Yards	Depth	Rocking Distance
3/4"-0	Gray	20	50	2"	As directed by State

If rock is delivered by weight scale, it will be based on a moisture content of (*15) percent. STATE will not give credit for weight of water delivered for moisture content above (*15) percent.

Exhibit D - USE OF ROADS BY PURCHASER. C5.12#

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		
2100020	Slate Creek	MP 0.0 / End County Maint.	MP 1.3 / Area 3	R	Limited structural capacity. Haul is restricted to dry weather haul during the normal operating season to protect fisheries, water, soils, and roads. The Normal operating season is <u>May 1 to October 31</u> . Bridge Overload permits required MP 0.4 FS Slate Creek Bridge.
25	Briggs Valley	MP 33.1 / Jct Hwy 199	MP 31.8 / Jct with 2500306	R	No haul during freeze thaw conditions.
2500306		MP 0.00	MP 1.7 / Jct with 2500742	R	Limited structural capacity. Haul is restricted to dry weather haul during the normal operating season to protect water, soils, and roads. The Normal operating season is <u>May 1 to October 31</u> .
2500742		MP 0.00	MP 1.3 / Area 3	R	Limited structural capacity. Haul is restricted to dry weather haul during the normal operating season to protect water, soils, and roads. The Normal operating season is <u>May 1 to October 31</u> .

The roads authorized for use are subject to the following provisions:

1. The current Rogue River-Siskiyou National Forest Road Rules Document (8/30/2012) is applicable to all commercial road users. This document is available for inspection at the Rogue River-Siskiyou National Forest Supervisor's Offices.
2. Federal Regulations contained in 36 CFR 261.12: These regulations prohibit use of vehicles or equipment in excess of State legal highway loads or posted limits without valid Forest Service overload permits, damaging a road while using it, or blocking a road open to use by others, except as may otherwise be provided in the contract. Submit requests for any proposed overload permit at least 30 days in advance of planned use of overload.

BKS GNA
SW-341-2020-GF7918-07

Exhibit D - ROAD MAINTENANCE REQUIREMENTS - C5.31#

Purchaser shall maintain roads in accordance with the following Contract Road Maintenance Requirements Summary:

Contract Road Maintenance Requirements Summary

Road	Termini		Miles	Applicable Prehaul Road Maintenance Specifications									
	From	To		T811	T813	T831	T832	T834	T838	T842	T851	T854	T891
2100020	0.0	1.2	1.2	P	P	P	P	P		P	P	P	P
25	33.1	31.8	1.3			P	P	P		P	P	P	
2500306	0.0	1.7	1.7	P		P	P	P		P	P	P	P
2500742	0.0	1.3	1.3						P			P	

Road	Termini		Miles	Applicable During Haul Road Maintenance Specifications										
	From	To		T811	T812	T813	T831	T832	T834	T838	T842	T851	T854	T891
2100020	0.0	1.2	1.2	P	P		P	P	P		P	P	P	P
25	33.1	31.8	1.3				P	P	P		P	P	P	
2500306	0.0	1.7	1.7	P			P	P	P		P	P	P	P
2500742	0.0	1.3	1.3							P			P	

Road	Termini		Miles	Applicable Post Haul Road Maintenance Specifications									
	From	To		T811	T813	T831	T832	T834	T838	T842	T851	T854	T891
2100020	0.0	1.2	1.2	P		P		P					P
25	33.1	31.8	1.3			P		P					
2500306	0.0	1.7	1.7	P		P		P					P
2500742	0.0	1.3	1.3						P				

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

T Specification Descriptions

- T-803 Snow Removal
- T-811 Blading
- T-812 Dust Abatement
- T-813 Surfacing
- T-831 Ditch Maintenance
- T-832 Remove and End Haul Materials
- T-834 Drainage Structure Maintenance
- T-835 Roadway and Drainage Maintenance
- T-838 Maintenance for High Clearance Vehicle Use
- T-839 Maintenance for Project Use
- T-842 Cutting Roadway Vegetation
- T-851 Logging Out
- T-854 Treatment and Disposal of Danger Trees
- T-891 Water Supply and Watering

General Notes:

All structures shall be cleaned and maintained. Structures to include bridges, culverts, catch basins, fences, gates, cattle guards and other structures. Purchaser shall place 50 CY of 3/4 inch minus crushed aggregate on Road 2100020 in lieu of paying rock wear fees. Place spot rocking at locations designated on the ground by the Contracting Office.

Road Maintenance T-Specifications

For

**BKS GNA Timber Sale
SW-341-2020-GF7918-07**

12/2/2019

EXHIBIT D - ROAD MAINTENANCE SPECIFICATIONS

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EXHIBIT D - ROAD MAINTENANCE SPECIFICATIONS

T - 800 SPECIFICATION DEFINITIONS

Wherever the following terms or pronouns are used in Specification T-800 the intent and meaning shall be interpreted as follows:

800-1.1 Agreement: Maintenance projects require a mutually acceptable method to resolve the problems which arise when incompatible situations arise between drawings and specifications and actual conditions on the ground to allow orderly and satisfactory progress of the maintenance.

These specifications have been developed in anticipation of those problem areas and have provided that such changes will be by Agreement.

It is intended that drawings and specifications will govern unless "on-the-ground" conditions warrant otherwise, when specifications call for "Agreement", "agreed", or "approval" such Agreement or approval shall be promptly confirmed in writing.

800-1.2 Annual Road Maintenance Plan: A plan prepared by various users of one or several roads. The plan is an Agreement on maintenance responsibilities to be performed for the coming year.

800-1.3 Base Course: Material used to reinforce subgrade or, as shown on drawings, placed on subgrade to distribute wheel loads.

800-1.4 Berm: Curb or dike constructed to prevent Roadway runoff water from discharging onto embankment slope.

800-1.5 Borrow: Select Material taken from designated borrow sites.

800-1.6 Crown, Inslope, and Outslope: The cross slope of the Traveled Way to aid in drainage and traffic maneuverability.

800-1.7 Culverts: A conduit or passageway under a road, trail, or other obstruction. A culvert differs from a bridge in that it is usually entirely below the elevation of the Traveled Way.

800-1.8 Drainage Dip: A dip in the Traveled Way which intercepts surface runoff and diverts the water off the Traveled Way. A Drainage Dip does not block the movement of traffic.

800-1.9 Drainage Structures: Manufactured structures which control the runoff of water from the Roadway including Inslope, overside drains, aprons, flumes, down drains, downpipes, and the like.

800-1.10 Dust Abatement Plan: A table which lists the road, dust palliative, application rates, and estimated number of subsequent applications.

800-1.11 Lead-off Ditches: A ditch used to transmit water from a Drainage Structure or Drainage Dip outlet to the natural drainage area.

800-1.12 Material: Any substances specified for use in the performance of the work.

EXHIBIT D - ROAD MAINTENANCE SPECIFICATIONS

800-1.13 Prehaul Maintenance: Road maintenance work which the Purchaser determines must be accomplished to maintain the roads to a satisfactory condition commensurate with the Purchaser's use provided Purchaser's Operations do not damage improvements under B6.22 or National Forest resources and hauling can be done safely. This work will be shown in the Annual Road Maintenance Plan as provided in C/CT5.4.

Prehaul Maintenance work the Purchaser elects to perform will be in compliance with the Road Maintenance T-Specifications.

800-1.14 Roadbed: The portion of a road between the intersection of Subgrade and side slopes, excluding that portion of the ditch below Subgrade.

800-1.15 Road Maintenance Plan: A table which shows applicable road maintenance specifications to be performed by Purchaser on specific roads.

800-1.16 Roadside. A general term denoting the area adjoining the outer edge of the Roadway.

800-1.17 Roadway: The portion of a road within the limits of excavation and embankment.

800-1.18 Shoulder: That portion of Roadway contiguous with Traveled Way for accommodation of stopped vehicles, for emergency use, and lateral support of base and Surface Course, if any.

800-1.19 Slide: A concentrated deposit of Materials from above or on back slope extending onto the Traveled Way or Shoulders, whether caused by mass land movements or accumulated raveling.

800-1.20 Slough: Material eroded from the back slope which partially or completely blocks the ditch, but does not encroach on the Traveled Way so as to block passage of traffic.

800-1.21 Slump: A localized portion of the Roadbed which has slipped or otherwise become lower than that of the adjacent Roadbed and constitutes a hazard to traffic.

800-1.22 Special Project Specifications: Specifications which detail conditions and requirements peculiar to the individual project.

800-1.23 Subgrade: Top surface of Roadbed upon which Base Course or Surface Course is constructed. For roads without Base Course or Surface Course, that portion of Roadbed prepared as the finished wearing surface.

800-1.24 Surface Course: The Material placed on Base Course or Subgrade primarily to resist abrasion and the effects of climate. Surface Course may be referred to as surfacing.

800-1.25 Surface Treatment Plan: A table which lists the roads and surface treatments to be applied.

800-1.26 Traveled Way: That portion of Roadway, excluding Shoulders, used for the movement of vehicles.

800-1.27 Turnouts: That portion of the Traveled Way constructed as additional width on single lane roads to allow for safe passing of vehicles.

800-1.28 Water Source: A place designated on the Road Maintenance Map for acquiring water for road maintenance purposes.

EXHIBIT D - ROAD MAINTENANCE SPECIFICATIONS

800-1.29 Water bar: A dip in the Roadbed which intercepts surface runoff and diverts the water off the Roadway. A Water bar is not designed to be traversable by logging trucks.

EXHIBIT D - ROAD MAINTENANCE SPECIFICATIONS

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

- A. Erect signs required by the Sign Plan in the SUPPLEMENTAL SPECIFICATIONS.
- B. Perform work in a manner to preserve and protect roads and appurtenances, and prevent erosion damage to roads, streams, and other Forest values.
- C. Do not undercut banks. Do not blade gravel or other surfacing material off the road.
- D. Keep roadbed drainage ditches, drain dips, and culverts functional when needed during operations and upon completion of operations.
- E. Control snow removal to identify the usable traveled way having roadbed support. Reshape over-width plowing as necessary to define the usable width.
- F. 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.
- G. Close roads to wheeled vehicles at times and in the manner specified in C (T) 5.12 or the Road Rules document.
- H. Upon seasonal completion of Purchaser's Operations, effectively block the road by a snow barricade, unless otherwise approved by the Contracting Officer.
- I. 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; includes 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; includes 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.
- J. 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.

EXHIBIT D - ROAD MAINTENANCE SPECIFICATIONS

- 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.

EXHIBIT D - ROAD MAINTENANCE SPECIFICATIONS

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 $\frac{1}{2}$ inch per 1 foot of width, but not more than $\frac{3}{4}$ 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
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There are no known areas of concern. Prior to beginning blading on Forest Service Roads, Forest Service will identify with flagging all areas of concern.

EXHIBIT D - ROAD MAINTENANCE SPECIFICATIONS

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, and T-839 shall be 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.

EXHIBIT D - ROAD MAINTENANCE SPECIFICATIONS

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.

EXHIBIT D - ROAD MAINTENANCE SPECIFICATIONS

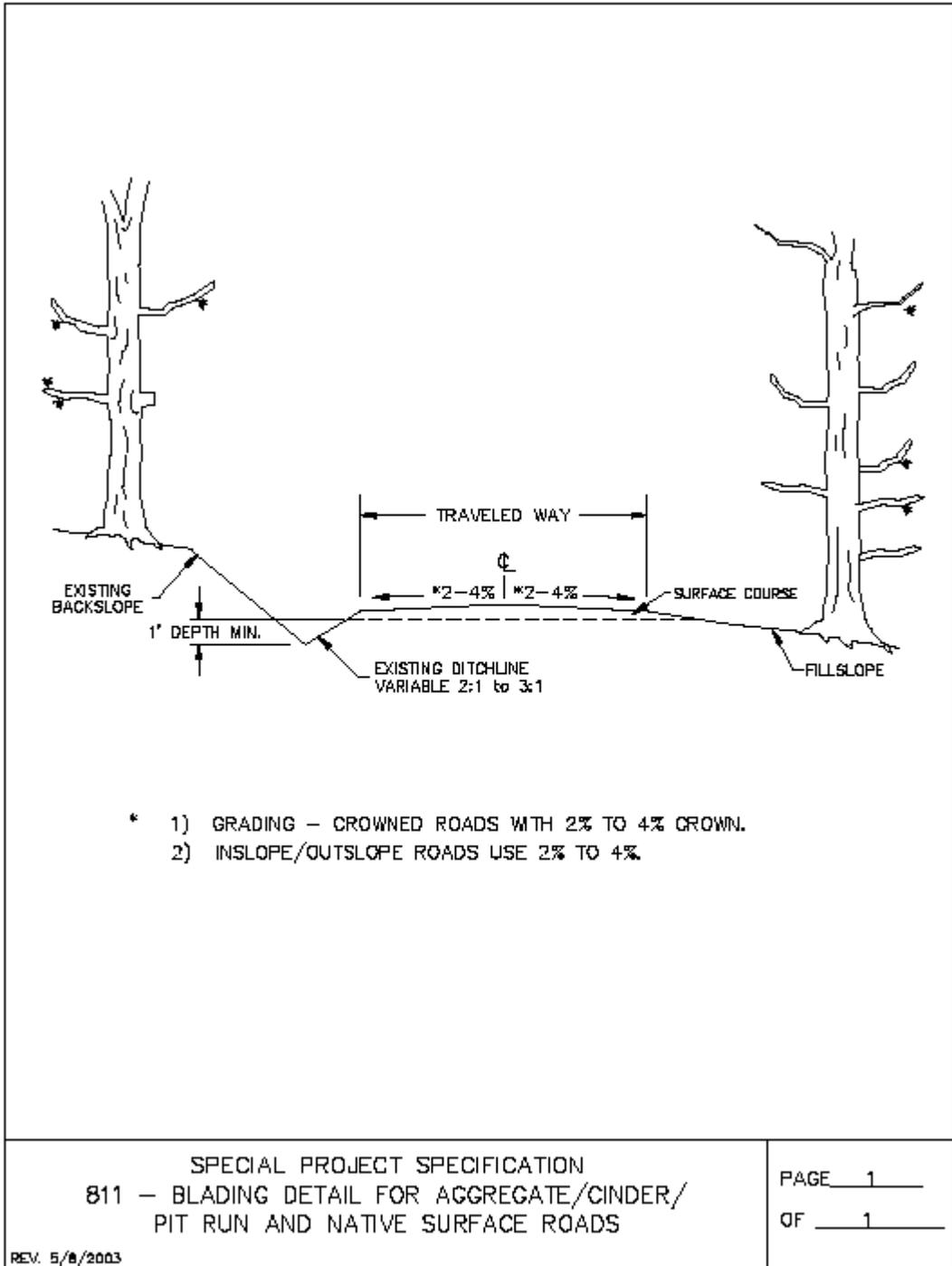


EXHIBIT D - ROAD MAINTENANCE SPECIFICATIONS

T - 812 DUST ABATEMENT (05/07)

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.

EXHIBIT D - ROAD MAINTENANCE SPECIFICATIONS

- 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 liters per square meter of the undiluted product at fifty (50), thirty-three (33), and thirty-eight (38) percent respectively. Calcium Chloride Flake is listed in Kilograms per square meter 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.

Supplemental Specifications T-812

812.03 Methods

The following methods can be used to decrease or eliminate the need for dust abatement: reducing the number of loads, changing the time of day the loads are hauled, reducing the speed of the vehicles, increasing the spacing between vehicles, etc.

EXHIBIT D - ROAD MAINTENANCE SPECIFICATIONS

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
Contact the Forest Service for list of Concerned Species.	Contact the Forest Service for list of Concerned Species and methods for mitigation measures to be taken prior to construction activities.

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

EXHIBIT D - ROAD MAINTENANCE SPECIFICATIONS

layer is placed. Upon completion, the surfacing shall reasonably conform to the adjacent cross section and provide smooth transitions in the road profile.

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.

EXHIBIT D - ROAD MAINTENANCE SPECIFICATIONS

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 back slopes 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
There are no known areas of concern. Prior to beginning blading on Forest Service Roads, Forest Service will identify with flagging all areas of concern.

EXHIBIT D - ROAD MAINTENANCE SPECIFICATIONS

T - 832 REMOVE AND END HAUL MATERIALS (05/07)

832.01 Description

Work consists of loading, hauling, and placing of slide, slough, or excess materials such as rock, soil, vegetation, and other materials to designated disposal sites.

832.02 Maintenance Requirements

- A. Remove, end haul, and dispose of excess materials generated by work under other Sections of this contract.
- B. Remove the slide and slough materials in the area extending approximately 6 feet vertically above the road surface and not more than 3 feet down slope from the roadbed. Dispose of material at designated sites as SHOWN ON THE DRAWINGS, identified in SUPPLEMENTAL SPECIFICATIONS, or as ordered by the Contracting Officer.

Reshape the slope which generated the slide material as nearly as practical to its original condition by equipment operating from road surface. Reshaping of roadside ditches in slide area shall be in accordance with Section T-831.

- C. When approved by the Contracting Officer, fill slumps by compacting selected materials into roadway depressions. Compaction is by Method 2.
- D. Place all materials in disposal sites as specified in the SUPPLEMENTAL SPECIFICATIONS, as SHOWN ON THE DRAWINGS, or as ordered by the Contracting Officer.
 - 1. Method 1 - Side Casting and End Dumping. Material may be placed by side casting and end dumping. Where materials include large rocks, provide a solid fill by working smaller pieces and fines into voids. Shape the finished surfaces to drain.
 - 2. Method 2 Layer Placement - Step or roughen surfaces on which materials are to be placed prior to placing any material. Place materials in approximately horizontal layers no more than 12 inches thick. Compact each layer by operating hauling and spreading equipment over the full width of each layer.
- E. Repair any damage to existing aggregate or pavement surfaces.

EXHIBIT D - ROAD MAINTENANCE SPECIFICATIONS

Supplemental Specification T-832

832.02 Maintenance Requirements

B. The following are disposal sites for each road as designate by the FSR

Road Number	MP
All Roads	As designated

D. Disposal method 1 shall be used at all disposal sites except on disposal sites listed below.

Road Number	MP

EXHIBIT D - ROAD MAINTENANCE SPECIFICATIONS

T - 834 DRAINAGE STRUCTURE MAINTENANCE (10/07)

834.01 Description

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

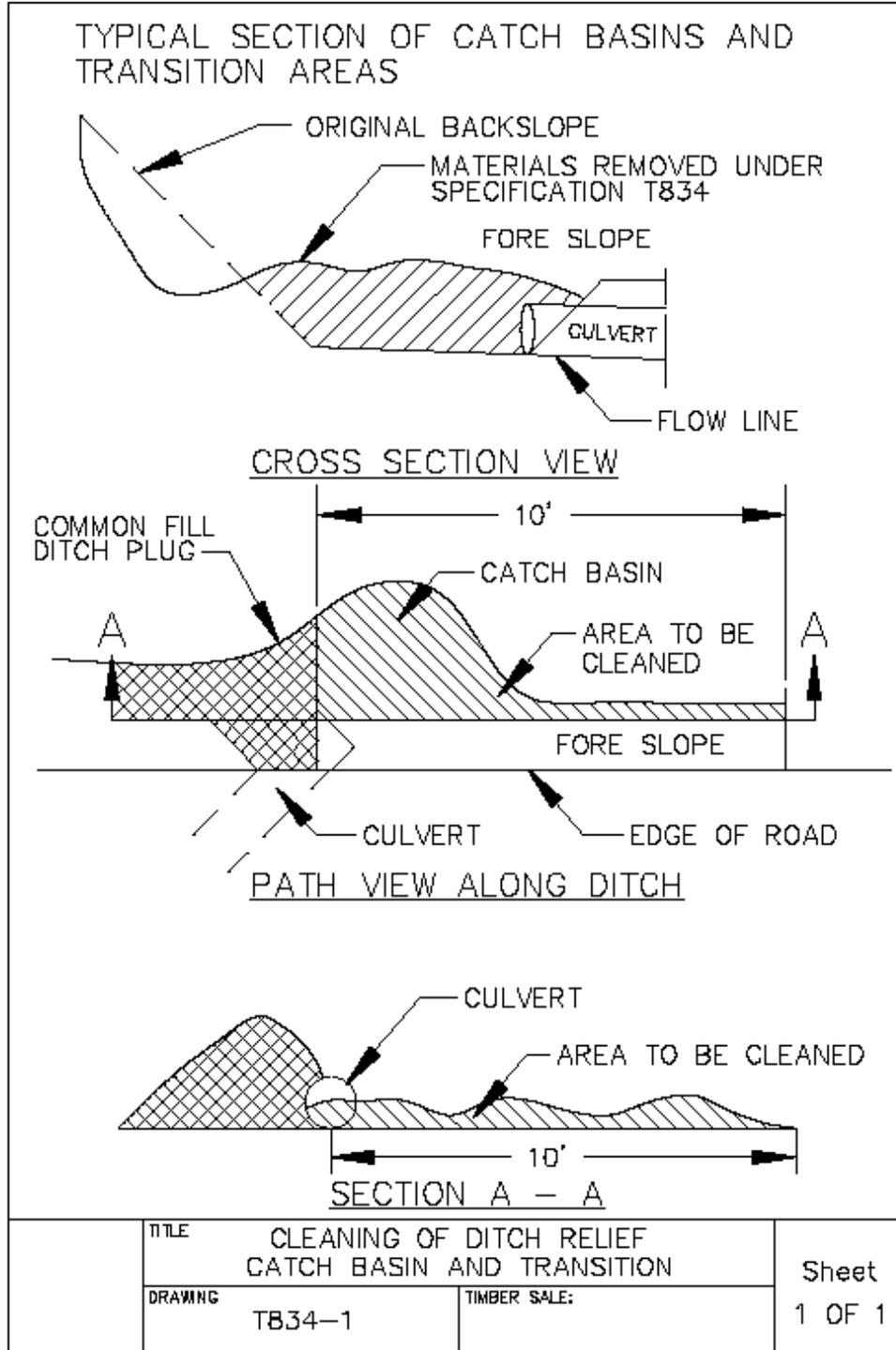
834.02 Maintenance Requirements

- 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
There are no known areas of concern. Prior to beginning blading on Forest Service Roads, Forest Service will identify with flagging all areas of concern.

EXHIBIT D - ROAD MAINTENANCE SPECIFICATIONS

EXHIBIT D - ROAD MAINTENANCE SPECIFICATIONS



Supplemental Specification T-834

EXHIBIT D - ROAD MAINTENANCE SPECIFICATIONS

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 ½ inch per yard of width.
Method B: Insloping the roadbed at not less than ½ inch per yard of width.
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 or 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.

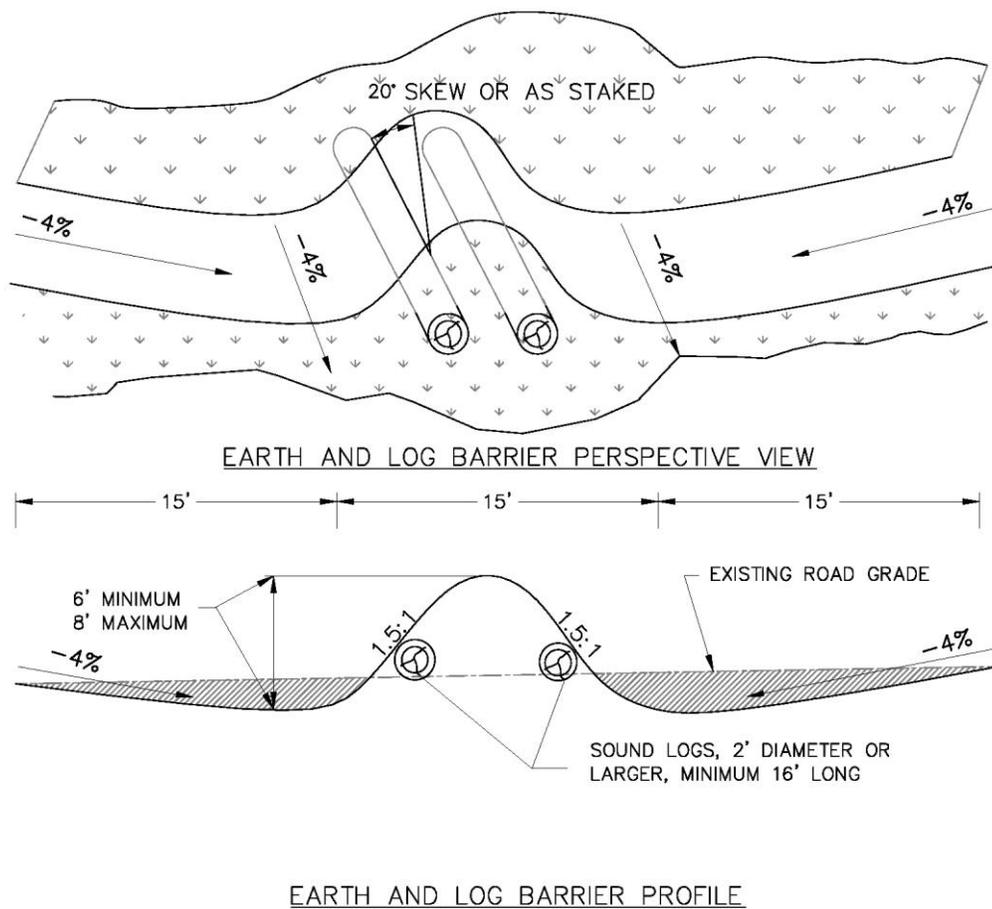
EXHIBIT D - ROAD MAINTENANCE SPECIFICATIONS

D. Seeding

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

EXHIBIT D - ROAD MAINTENANCE SPECIFICATIONS

DRAWING T-835 – EARTH AND LOG BARRIER

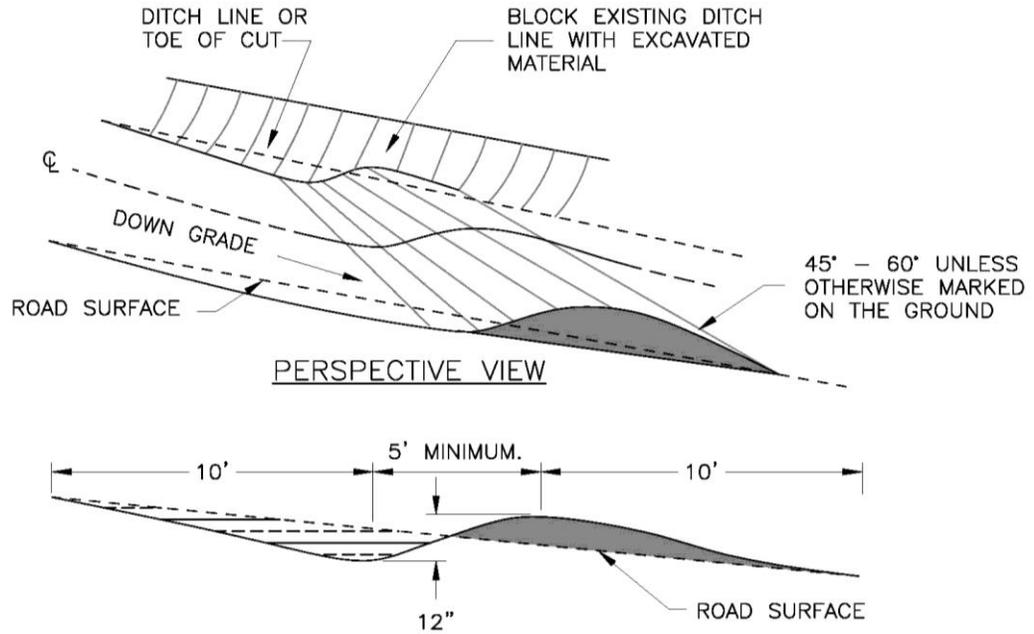


NOTES:

1. THE PURPOSE OF THE BARRIER IS TO DISCOURAGE ENTRY BY MOTORIZED VEHICLES.
2. THE CONTRACTOR SHALL EXERCISE CARE AND TAKE PRACTICAL MEASURES TO PREVENT THE LOSS OF MATERIAL BELOW THE ROADBED. SIDE CASTING IS NOT ALLOWED.
3. THE BARRIER SHALL BE CONSTRUCTED TO THE FULL WIDTH OF THE ROAD, SKEW APPROXIMATELY 20' TO CENTER LINE, AND OUTSLOPE ROAD TO DRAIN.
4. ENSURE THAT WATER MAY DRAIN AWAY FROM EARTH AND LOG BARRIER MOUND.

EXHIBIT D - ROAD MAINTENANCE SPECIFICATIONS

DRAWING T-835 - WATER BAR



CROSS SECTION ON CENTERLINE

NOTE:

1. All water bars shall begin at the intersection of the roadbed and cut slope and run across the entire width of the roadbed.
2. Outslope water bars when conditions permit with inlet of water bar constructed to bottom of ditch line or a minimum of 12" below the existing road elevation measured at the bottom of the cut slope.
3. Inslope water bars only when draining into an existing ditch.
4. All water bars shall have free flowing outlets.
5. Grade of water bars shall be a minimum of 6% or 2% more than the road grade, whichever is greater.
6. When stakes are used, they shall designate the outlet location (ditch side or fill slope side).
7. Unless locations are staked by the Forest Service, the following table shall be used as a guide:

DRAINAGE SPACING TABLE
SPACING ALONG CENTERLINE

DOWN GRADE (IN %)	UNSURFACE D	SURFACED
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EXHIBIT D - ROAD MAINTENANCE SPECIFICATIONS

2	105 FT.	160 FT.
4	90 FT.	140 FT.
6	80 FT.	125 FT.
8	75 FT.	115 FT.
10	65 FT.	100 FT.
12	55 FT.	85 FT.
14	45 FT.	70 FT.
16	35 FT.	55 FT.
18	30 FT.	45 FT.
>20	30 FT.	30 FT.

EXHIBIT D - ROAD MAINTENANCE SPECIFICATIONS

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 all 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.

EXHIBIT D - ROAD MAINTENANCE SPECIFICATIONS

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. Post haul

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.

EXHIBIT D - ROAD MAINTENANCE SPECIFICATIONS

T - 839 MAINTENANCE FOR PROJECT USE (05/07)

839.01 Description

Work consists of providing minimum access required for Purchaser's Operations and associated Forest Service contract administration and preventing unacceptable resource or road damage.

839.02 Maintenance Requirements

- A. Purchaser is authorized to perform the following maintenance to provide vehicle passage and drainage:
1. Removing log, earth, and rock barriers and/or improving existing road junctions to enable vehicle access as mutually agreed.
 2. Smoothing or filling existing cross ditches and water bars.
 3. Installing Purchaser-furnished culverts or other temporary drainage structures for shallow stream crossings as approved by the Contracting Officer.
 4. Removing brush, fallen trees, rocks, and other materials from the traveled way and other locations that interfere with needed maintenance:
 - a. Place all removed materials away from drainages.
 - b. Limb and remove timber which meets utilization standards or deck at locations approved by the Contracting Officer. Scatter other woody materials, including limbs, off of and below the roadbed without creating concentrations.
 5. Clean and recondition drainage structures in accordance with Section T-831 and Section T-834.
 6. Reposition or ramp over slough and slides to provide adequate width of traveled way material.
 7. Provide traveled way drainage above slumps and seal cracks in slump area. Ramp the slumps on both ends into undisturbed roadbed to provide usable width unless otherwise ordered by the Contracting Officer.
- B. During use, the traveled way shall not channel water along the road. Prior to seasonal periods of anticipated rains and runoff, perform the following work:
1. Shape the traveled way and roadbed to drain.
 2. Reinstall removed cross ditches and water bars; construct any additional drainage structures necessary to offset changes through use and maintenance.
 3. Perform work outlined in 839.02 A (5), (6), and (7).

EXHIBIT D - ROAD MAINTENANCE SPECIFICATIONS

4. During periods of non use, replace original barrier or provide and maintain standard MUTCD, Type 3, barricades unless alternate type barriers are approved by the Contracting Officer.

839.03 Post Haul Requirements

- A. Upon completion of project use perform such work as needed to reasonably conform to the character of the existing road prior to Purchaser's maintenance for project use, unless otherwise provided in the SUPPLEMENTAL SPECIFICATIONS or the ROAD LISTING. Work shall be in addition to requirements of 839.02 B and in accordance with 839.03 B and C.
- B. Roads designated in the ROAD LISTING to be blocked shall conform to the requirements of Section T-835. Unless otherwise approved by the Contracting Officer, remove Purchaser-installed temporary structures from National Forest System land. Associated commercially-obtained materials shall remain the property of the Purchaser.
- C. Remove or reshape Purchaser improvements at road junctions, as approved by the Contracting Officer at the time of improvement.

EXHIBIT D - ROAD MAINTENANCE SPECIFICATIONS

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 day lighted (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 fore slopes is not required.

EXHIBIT D - ROAD MAINTENANCE SPECIFICATIONS

- c. Non-ditched cut section cutting commences at the intersection of the cut bank 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 or 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 are 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. Materials may be scattered down slope from the roadbed, outside of the work area and drainages unless otherwise listed in D. Invasive Species of Concern.

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.

EXHIBIT D - ROAD MAINTENANCE SPECIFICATIONS

Invasive Species of Concern Prevention Practices

There are no known areas of concern. Prior to beginning blading on Forest Service Roads, Forest Service will identify with flagging all areas of concern.

EXHIBIT D - ROAD MAINTENANCE SPECIFICATIONS

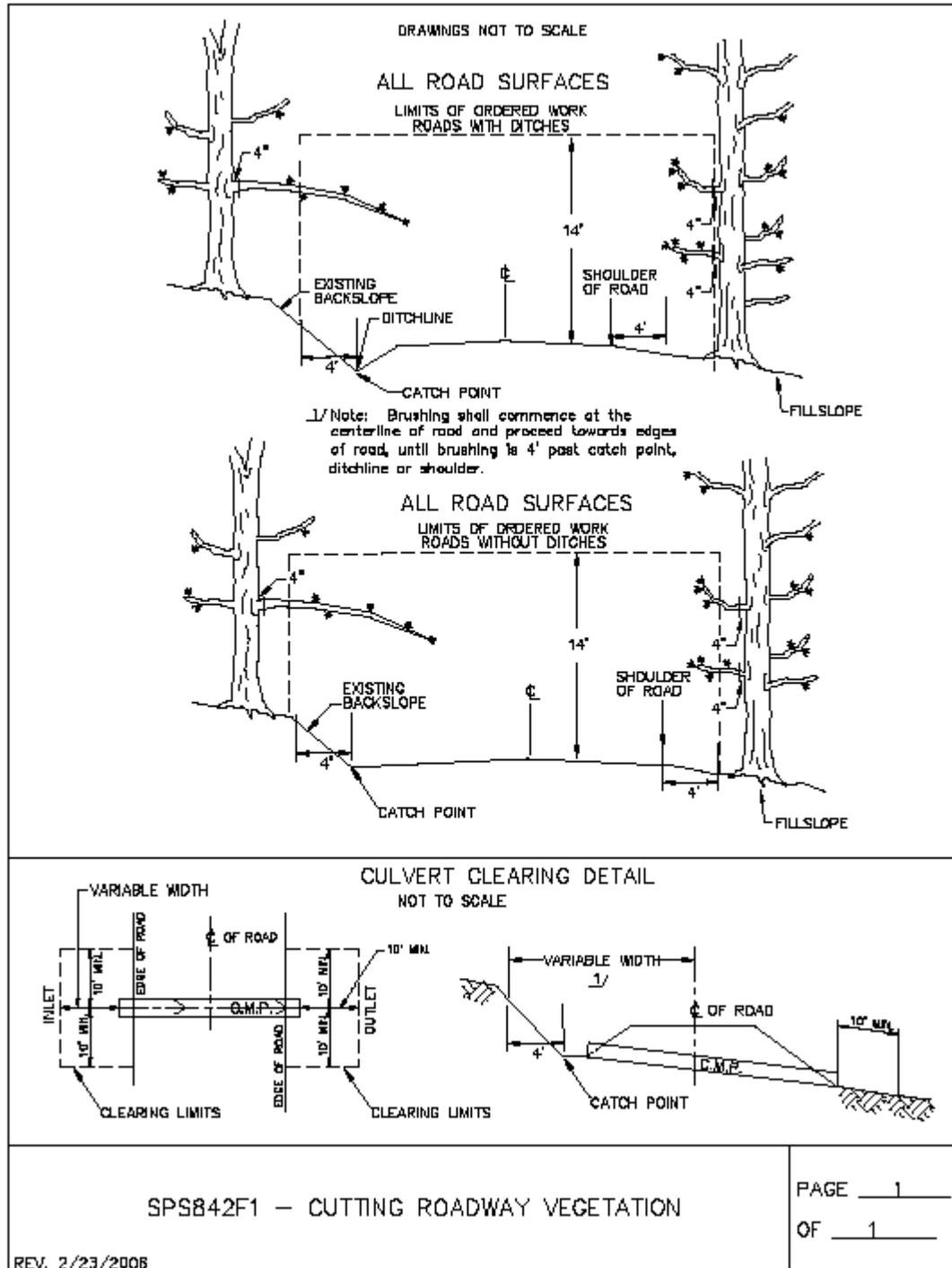


EXHIBIT D - ROAD MAINTENANCE SPECIFICATIONS

T - 851 LOGGING OUT (5/07)

851.01 Description

This work consists of removal of fallen trees and snags which encroach into the roadway or the 3 feet of roadside abutting the roadway on the cut side.

851.02 Maintenance Requirements

- A. Limb and remove timber which meets Utilization Standards, or deck at locations designated by the Contracting Officer.
- B. Limb other material cut into lengths for handling. Deck cut material outside ditches and drainages, off the traveled way and turnouts or at staked locations. The clearing width is to the edge of the roadway for public use roads, except limited use roads. The clearing width for limited use roads is shown in the specifications.
- C. Notwithstanding B(T)2.3, blow down timber outside Sale Area required to be removed, which meets Utilization Standards in A(T)2, when designated by the Contracting Officer is Included Timber subject to requirements of B(T)2.2.
- D. Do not leave woody debris and slash in excess of 12 inches in length or 3 inches in diameter, or concentrations which may plug ditches or culverts, in ditches, drainage channels, or on back slopes, traveled way, shoulders, or turnouts.

EXHIBIT D - ROAD MAINTENANCE SPECIFICATIONS

T - 854 TREATMENT AND DISPOSAL OF DANGER TREES (5/07)

854.01 Description

This work consists of felling and disposal of designated live or dead danger trees sufficiently tall to reach roads used by the Purchaser. Any removal of logs is subject to prior agreement between the Contractor Officer and the Purchaser.

854.02 Requirements

A. Designation of danger trees.

Danger trees to be felled will be designated in advance by the Contracting Officer. Trees to be removed will be marked.

B. Falling, bucking and treatment for disposal.

Use controlled felling to ensure the direction of fall and prevent damage to property, structures, roadway, residual trees, and traffic. Stump heights, measured on the side adjacent to the highest ground, must not exceed 12 inches or 1/3 of the stump diameter, whichever is greater. Higher stump heights are permitted when necessary for safety.

Felled snags and trees, which are not marked for removal, will be left in a stable condition such that they will not roll or slide. Position logs away from standing trees so they will not roll, are not on top of one another, and are located out of roadway and drainage structures.

Fell, limb and, remove trees, which are marked for removal, that equal or exceed the utilization standards as listed in the Timber Sale contract or SUPPLEMENTAL SPECIFICATIONS. Dispose of merchantable timber designated for removal in accordance with B/BT2.32 Construction Clearing, of the Timber Sale Contract, or as described in SUPPLEMENTAL SPECIFICATIONS.

C. Slash treatment.

Within the roadway, remove limbs, chunks, and debris in excess of 12 inches in length and 3 inches in diameter, and concentrations that may plug ditches or culverts, and water courses.

Dispose of slash by scattering outside the roadway limits without damaging trees, or improvements.

Large accumulations of slash may be ordered hauled under T-832.

EXHIBIT D - ROAD MAINTENANCE SPECIFICATIONS

T-891 WATER SUPPLY AND WATERING (5/07)

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>Location Road</u>	<u>Location Milepost</u>	<u>Use Restrictions</u>
All roads	As designated by FSR.	Use fish screens that meets the most current version of NMFS's fish screen criteria (NMFS 2011). Either a round or square screen mesh that is no larger than 2.38 millimeters (mm) (0.094 inches) in the narrow dimension, Or any other shape that is no larger than 1.75 mm (0.069 inches) in the narrow dimension.

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 50% is maintained. Obtain approval from the Contracting Officer on improvements for sandbags or weirs prior to placement.

EXHIBIT D

ROCK ACCOUNTABILITY

PURCHASER shall obtain subgrade approval from STATE prior to rocking. Rocking shall be limited to periods when weather conditions are acceptable to STATE and when sediment will not enter streams. Additional surfacing needed because of construction season or construction practice is not included in the preceding ROAD SURFACING table, and shall be furnished at PURCHASER expense.

Rock accountability shall be determined by the following methods, as directed by STATE. STATE shall be given 24 hours' notice prior to rocking.

Depth Measurement. Rock shall be spread and compacted according to the depths specified in Exhibit D. Truck measure volumes are given, but shall not limit the amount of rock spread.

Depth shall be determined in the most compacted area of the surface cross section. The depth of compacted aggregates shall not vary more than 1 inch from the depth specified in the "Road Surfacing" table in Exhibit D. The average depth for each road segment shall be the specified depth or greater. If additional rock is required because of insufficient depth, the locations and volumes to be added shall be determined by STATE.

Load Records. Notify STATE before spreading the rock and maintain a record of all rock delivered for spreading. Make the record available for STATE inspection. A report listing the amount of rock delivered the prior month must be submitted weekly.

EXHIBIT E

SKID ROAD and TEMPORARY ROAD VACATING SPECIFICATIONS
 SUBSOILING, WOODY DEBRIS, WATERBARS AND BLOCKING ROADS

- (1) Equipment. A Cat with ripper or a track mounted excavator shall be used for all road blocking, and waterbarring, unless otherwise approved in writing by STATE.
- (2) Dry Conditions. All work shall be performed during dry conditions acceptable to STATE. All subsoiling shall be done when soil moisture is less than 50%.
- (3) Frozen Ground Logging. If it is determined by State that Subsoiling is not required do to minimal compaction, State will release PURCHASER in writing. Woody Debris, Waterbars and Blocking Roads as described below shall be accomplished unless otherwise approved by STATE.

SPECIFIC INSTRUCTIONS/SPECIFICATIONS:

<u>Segment</u>	<u>Work Description</u>
C-D	<u>Subsoiling</u> : After logging, all temporary roads shall be subsoiled or ripped. Shape roadbed to the original slope. Pull slash back across the subsoiled roadbed, for 85% effective ground cover over exposed mineral soil. If large tree roots, bedrock or subsurface boulders prevent subsoiling, purchaser shall work around them so as to avoid pulling these to the surface or ripping through them.
Skidroads and Temp Roads	<u>Woody Debris</u> Pull slash back across the subsoiled roadbed, for 85% effective ground cover over exposed mineral soil.
Skidroads and Temp Roads	<u>Construct Waterbars</u> as directed by STATE. Construct waterbars according to the specifications in Exhibit D, T-835.
C, E	<u>Block Roads</u> . All temporary roads shall be closed at the end of logging season to prevent off highway vehicle use. Use excavated material and cull logs to block temporary roads and skid roads from vehicle access, as directed by STATE. See Exhibit D, T-835
C-D	Restore drainage as necessary. Pull back material from draw.

EXHIBIT F

SPECIFICATIONS FOR BRUSH AND SLASH SHOVEL PILING

Description of Work to be Done

- (1) Within 14 days after completion of each Setting, pile all Slash within reach of the Landings by a log loader in the center of the Landing. Material suitable for firewood four inches and greater in diameter and up to twenty feet in length shall be separated into individual piles accessible for firewood cutting. Other Slash shall be piled to facilitate pile burning as directed by STATE.
- (2) Piles must be free of noncombustible material and soil and as compact as possible. Pile all slash over 3" diameter. Piles shall be no larger than twenty (20) feet by twenty (20) feet by twenty (20) feet. No piece in the pile should exceed fifteen (15) feet in length. Protruding pieces should not exceed three (5) feet from the pile and shall be trimmed to allow covering in a manner that permits the piles to shed water.
- (3) Firewood decks shall be no larger than twenty (20) feet by twenty (20) feet by six (6) feet tall. Piles must be free of noncombustible material and as stable as possible.
- (4) Location of Landing Piles and Decks. Outside edge of grapple/loader pile and/or decks shall be at least twenty-five (25) feet from base of any trees or adjacent timber. Piles shall not be located on road surfaces and ditch lines or interfere with functioning of drainage structures, ditches, or stream channels. Piles located within fifty (50) feet from live streams must be approved in writing by Forest Service.
- (5) If (Clustered Lady Slipper) *Cypripedium fasciculatum* is found in the sale area, piles will not be placed in areas that will harm individual plants.

**U.S. DEPARTMENT OF AGRICULTURE – FOREST SERVICE
BRIDGE USE APPLICATION AND PERMIT
36CFR 261.12, and 261.54(c)**

DATE RECEIVED: _____	<u>EFFECTIVE DATES OF PERMIT</u>	(Section for Forest Service Use Only)
PERMIT NO.: _____	BEGINNING: _____	TERMINATING: _____
		EXCLUDING: _____

PERMITTEE/APPLICANT: _____ PHONE: _____
 ADDRESS: _____ FAX: _____
 REASON FOR PERMIT: TIMBER SALE: _____
 CONSTRUCTION CONTRACT: _____
 OTHER: _____
 DESIRED TRAVEL DATES: BEGIN: _____ END: _____
 DESIRED TRAVEL ROUTE (Road #'s, Termini & Bridges): _____

=====

TYPE OF VEHICLE: _____
 TOTAL GROSS WEIGHT: _____ POUNDS LICENSE NO: _____ STATE: _____
 MAXIMUM DIMENSIONS: LENGTH: _____ WIDTH: _____ HEIGHT: _____

VEHICLE DESCRIPTION

AXLE NO.	AXLE SPACING FEET & INCHES	AXLE LOAD POUNDS	AXLE WIDTH (OUT – OUT) FEET INCHES	TIRE WIDTH (OUT-OUT) PER WHEEL LINE INCHES	NO. OF TIRES PER AXLE	TIRE SIZE
1	D1 _____ ' _____ "	P1 _____	_____ ' _____ "	_____ "	_____	_____
2	D2 _____ ' _____ "	P2 _____	_____ ' _____ "	_____ "	_____	_____
3	D3 _____ ' _____ "	P3 _____	_____ ' _____ "	_____ "	_____	_____
4	D4 _____ ' _____ "	P4 _____	_____ ' _____ "	_____ "	_____	_____
5	D5 _____ ' _____ "	P5 _____	_____ ' _____ "	_____ "	_____	_____
6	D6 _____ ' _____ "	P6 _____	_____ ' _____ "	_____ "	_____	_____
7	D7 _____ ' _____ "	P7 _____	_____ ' _____ "	_____ "	_____	_____
8	D8 _____ ' _____ "	P8 _____	_____ ' _____ "	_____ "	_____	_____
9	D9 _____ ' _____ "	P9 _____	_____ ' _____ "	_____ "	_____	_____
10	D9 _____ ' _____ "	P10 _____	_____ ' _____ "	_____ "	_____	_____

SIGNATURE OF APPLICANT:
 SIGNATURE: _____

 (Print Name)
 TITLE: _____
 DATE: _____

NAME OF REGISTERED PROFESSIONAL ENGINEER EVALUATING BRIDGE(S)
 FOR ABOVE VEHICLE: _____ (PE)
FOREST BRIDGE INSPECTION PROGRAM MANAGER RECOMMENDATION
 AND REGIONAL BRIDGE ENGINEER CONCURRENCE
 SUBJECT TO PROVISIONS AND ATTACHMENTS INCLUDED HEREIN
 SIGNATURE: _____ DATE: _____
 Forest Bridge Inspection Program Manager
 SIGNATURE: _____ DATE: _____
 R-6 Regional Bridge Engineer

APPROVAL OF PERMIT

PERMISSION IS HEREBY GIVEN TO THE ABOVE APPLICANT FOR THE USE OF THE DESIGNATED BRIDGE(S) IN THE MANNER DESCRIBED, SUBJECT TO THE PROVISIONS AND ATTACHMENTS INCLUDED WITH THIS PERMIT
 SIGNATURE: _____ DATE: _____
 TITLE: _____
 Forest Supervisor