

Oregon Department of Forestry 2600 State St Salem OR 97310

PART III: EXHIBITS

EXHIBIT B

TIMBER SALE OPERATIONS PLAN

(See page 2 for instructions)

Date Received by State	e:			(5) State B	rand Information(Co	mplete)
(1) Contract Number:	WL-341-2025	-W01201-01				
(2) Sale Name:	Bald Hill Sal	vage				
(3) Contract Expiration	Date: 09/30/2	025				
(4) Purchaser Name:						
(6) State Representativ	es:					
Name		Circle O	ne	Phone No.	<u>Cell No.</u>	Alt Phone
		Logging Proj	ects All			
		Logging Proj	ects All			
		Logging Proj	ects All			
		Logging Proj	ects All			
(7) Purchaser Represe <u>Name</u>	ntatives:	<u>Circle O</u>	ne	Phone No.	Cell No.	Alt Phone
		Logging Proj	ects All			
		Logging Proj	ects All			-
		Logging Proj	ects All		1	
		Logging Proj	ects All			
		Logging Proj	ects All			
		Logging Proj	ects All			
		Logging Proj	ects All			
(8) Name of Subcontract	tors and Start Da	ites:				
Project No. Subcon	tractor Name.	<u>Start D</u>	ate	Completion Date	<u>Cell No.</u>	<u>Alt Phone</u>
Sub	ocontractor Nar	ne.	St	art Date	Cell No.	Alt Phone
FELLING						
YARDING						
(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.



Oregon Department of Forestry 2600 State St Salem OR 97310 PART III: EXHIBITS EXHIBIT B INSTRUCTION SHEET FOR OPERATIONS PLAN

SUBMIT ONE COPY OF PLAN 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 including without limitation PURCHASER'S independent obligation to avoid take of a T&E species and PURCHASER'S obligation to comply with terms and conditions of any incidental take Permit(s) that include required minimization and mitigation measures in any applicable Habitat Conservation Plan. 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.
- (9) 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 required by the timber sale contract. Provide spur road specifications

- 3. Locations of proposed tractor yarding roads. Show if and how marked on the ground.
- 4. Locations 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.

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Spur truck roads.

Tractor yarding roads.

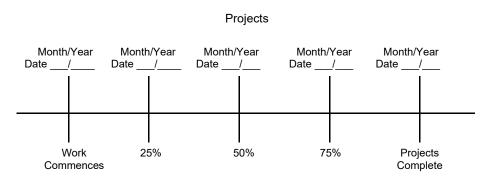
Temporary stream crossings.



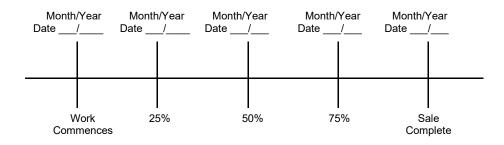
Oregon Department of Forestry 2600 State St Salem OR 97310 PART III: EXHIBITS EXHIBIT B OPERATIONS PLAN

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.



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 or that the plan is consistent with the terms and conditions of any applicable incidental take Permit(s) including any required minimization and mitigation measures proposed in the applicable Habitat Conservation Plan. As provided in the timber sale contract, PURCHASER's must comply with all applicable state, federal, and local laws, including without limitation any Permit(s) issued thereunder.

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



Oregon Department of Forestry EXHIBIT C - SAWMILL GRADE (WESTSIDE SCALE) SCALING INSTRUCTIONS - LOCATION APPROVAL - BRAND INFORMATION Western Lane - SOA

(1)	ORIGINAL REGISTRATION			Date	
	REVISION NUMBER	000		Date	
	CANCELLATION			Date	
(2)	TO:				

(Third Party Scaling Organization)

(3) FROM: Western Lane Phone (541) 935-2283 (State Forestry District)

87950 TERRITORIAL HWY Address:

VENETA, OR 97487-0157

(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

(6) WESTSIDE SCALE:

Use Region 6 actual taper rule. Logs over 40'.

YES NO

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

(9) SALE NAME: Bald Hill Salvage

COUNTY: Lane

- (10) STATE CONTRACT NUMBER: WL-341-2025-W01201-01
- STATE BRAND REGISTRATION NUMBER: (11)
- **STATE BRAND INFORMATION:** (12)



(13) PAINT REQUIRED: YES \checkmark COLOR: Orange

(14) SPECIAL REQUESTS (Check applicate	ole)
PEELABLE CULL (all species)	$\mathbf{\nabla}$
NO DEDUCTIONS ALLOWED FOR MECHANICAL DAMAGE	
ADD-BACK VOLUME - Deductions due to delay	

OTHER :

(15) **REMARKS**:

'Mule Trains"

- 1. Loads are required to have load tickets for each set of bunks.
- 2. If truck and pup are to be weighed, weigh and process separately for gross and tare weights.

Operator's Name (Optional inclusion by District):

(16) SIGNATURES:

> Purchaser or Authorized Representative Date

State Forester Representative

Date

State Forester Representative PRINT NAME

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. General Distribution: TPSO, Approved Scaling Locations and Purchaser.

ODF/State Forests Timber Sale Exhibit C Form 629 342-307a Walt Sys Gen Report 2014 Page 2 of 2



Oregon Department of Forestry EXHIBIT C - SAWMILL GRADE INSTRUCTIONS FOR EXHIBIT C Western Lane - SOA

- (1) Check appropriate box. REVISION NUMBER requires comments. CANCELLATION requires logging and hauling to be complete, recall branding hammers.
- (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: <u>services@crls.com</u>

Mountain Western Log Scaling & Grading Bureau 2560 NW Medical Park Drive, OR 97471 Phone: (541) 673-5571 Fax: (541) 672-6381 Email: <u>info@mwlsgb.com</u>

Northwest Log Scalers Inc. 6137 NE 63rd St, Vancouver, WA, 98661 Phone: (360) 553-7212 ext. 4 Fax:(360) 553-7213 Email: <u>info@nwlogscalers.com</u> 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

Yamhill Log Scaling & Grading Bureau P.O.Box 709, Forest Grove, OR 97116 Phone: (503) 359-4474 Fax: (503) 359-4476 Email: <u>yamhillog@frontier.com</u>

- (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 specifies 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: https://apps.odf.oregon.gov/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 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. Signatures not required on revisions.

	EXHIBI PROCESSING INSTRUC BRANI	partment of Forestry T C - PULP SORT CTIONS - LOCATION APPROVAL D INFORMATION tern Lane, SOA
(1)	ORIGINAL REGISTRATION	(9) SALE NAME: Bald Hill Salvage
	REVISION NUMBER Date	COUNTY: Lane
	CANCELLATION	(10) STATE CONTRACT NUMBER:
(2)	TO:	WL-341-2025-W01201-01
	(Approved Pulp Processing Facility)	(11) STATE BRAND REGISTRATION NUMBER:
(3)	FROM: Western Lane Phone (541) 935-2283 (State Forestry District)	(12) STATE BRAND INFORMATION:
	Address: 87950 TERRITORIAL HWY	\frown
	VENETA,OR 97487-0157	
(4)	PURCHASER:	
(5)	Scaling Bureau (TPSO) Processing Weight receipts:	\sim
	Mailing Address:	(13) REMARKS:
	Phone Number:	 "Mule Trains" 1. Loads are required to have load tickets for each set of bunks. 2. Truck and pup are to be weighed and processed separately for gross and tare weights.
(6)	STATE Definition of Approved Pulp Sort:	Operator's Name (Optional inclusion by District):
	Top portion of the tree (tops).	
	 All logs with a diameter (Big End) greater than <u>8</u> inches marked with blue paint. 	(14) SIGNATURES:
(7)	PULP FACILITY PROCESSING INSTRUCTIONS:	- Data
	 Pulp loads shall be weighed in lieu of scaling. One Ton = 2000 lbs (Short Ton). 	Purchaser or Authorized Representative Date
	Pulp loads shall have a yellow Log Load Receipt attached.	State Forester Representative Date
	 Gross weight and truck tare weight for each load shall be machine printed on the weight receipt. 	
	• Weigher shall sign the weight receipt.	State Forester Representative PRINT NAME
	Weigher shall record the Log Load Receipt number on the weight receipt.	
	 Weigher shall attach the Weight receipt to the Log Load Receipt and mail them weekly to the TPSO processing the Weight receipt. 	
(8)	TPSO PROCESSING INSTRUCTIONS	
	Submit data files daily (or each day of activity).	
	 Mail or deliver scale tickets weekly to ODF Headquarters in Salem. 	

Notify the District within one hour when branding is inadequate for quick identification, the logs are marked with orange paint, the receipts are missing, not correctly or completely filled out, and/or logs do not meet the specifications of the STATE definition of Approved Pulp Sort.

General Distribution: TPSO, Approved Scaling Locations and Purchaser.



Oregon Department of Forestry EXHIBIT C - PULP SORT INSTRUCTIONS FOR EXHIBIT C

Western Lane, SOA

- (1) Check appropriate box. REVISION NUMBER requires comments. CANCELLATION requires logging and hauling to be complete, recall branding hammers.
- (2) Approved Pulp Processing Facility. Write in as written in the Approved Log Delivery Location <u>https://apps.odf.oregon.gov/Divisions/management/asset_management/scalinglocation.asp</u>
- (3) State District office, address and phone.
- (4) Enter Purchaser's business name, address, and phone number as it appears on the Contract.
- (5) 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: <u>services@crls.com</u>

Mountain Western Log Scaling & Grading Bureau 2560 NW Medical Park Drive, Roseburg, OR 97471 Phone: (541) 673-5571 Fax: (541) 672-6381 Email: <u>info@mwlsgb.com</u>

Northwest Log Scalers Inc. 6137 NE 63rd St, Vancouver, WA, 98661 Phone: (360) 553-7212 ext. 4 Fax:(360) 553-7213 Email: <u>info@nwlogscalers.com</u> Pacific Rim Log Scaling Bureau, Inc. 8288 28th Court North East, Lacey, WA 98516 Phone: (360) 528-8710 Fax: (360) 528-8718 Email: <u>office@prlsb.com</u>

Yamhill Log Scaling & Grading Bureau P.O.Box 709, Forest Grove, OR 97116 Phone: (503) 359-4474 Fax: (503) 359-4476 Email: <u>yamhillog@frontier.com</u>

- (6) 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 <u>8</u> inches. When conifer and hardwood removal specifications are different, use the smaller removal diameter to determine this specification.
- (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 (13).
- (13) Use this section to list any special instructions or the reason for any revisions in section item (1).
- (14) Require purchaser to sign and date completed form in addition to State Forester Representative, sign <u>and</u> print name on the form. Signatures not required on revisions.

Road	Subgrade Width	Surfaced Width	STATION TO STATION	Drainage
Bald Hill Road	18	16	I-1 to I-2	Maintain Existing
Old Man Creek	18	16	I-2 to I-3	Maintain Existing
Brush Creek	18	16	I-2 to I-4	Maintain Existing
1A-1B	16	14	0+00 to 3+05	Outsloped
2A-2B	16	14	0+00 to 3+65	Ditched
2A-2B	16	14	3+65 to 6+90	Outsloped

FOREST ROAD SPECIFICATIONS

<u>CLEARING</u>. 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 - Where clearing limits have not been marked, the clearing limits shall extend 5 feet back of the top of the cutslope and 10 feet out from the toe of the fill slope, or as directed by STATE.

<u>GRUBBING</u>. 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.

<u>CLEARING AND GRUBBING DISPOSAL</u>. 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 50 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.

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 50 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.

<u>ROAD WIDTH LIMITATIONS</u>. 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.

<u>Curve Widening</u>. 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

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

Ditch. Construct "V "shaped ditch 3 feet wide and to a depth of 1 foot below subgrade.

<u>Ditchouts</u>. Construct ditchouts to drain away from subgrade at locations marked in the field or as directed by STATE.

<u>TURNOUTS</u>. Increase roadbed width an additional 8 feet for both subgrade and surfacing. Length shall be at least 25 feet, or as staked on the ground, plus 25-foot approaches at each end.

Location: As marked in the field.

<u>SLOPES</u>	Cut Slopes	Fill Slopes
Solid Rock	Vertical to 1/4 : 1	
Fractured Rock	1⁄4 : 1	
Soil - side slopes 50% and over	1 :1	1½:1
Soil - side slopes less than 50%	1 :1	1½:1

Top of cut slope shall be rounded.

<u>LANDINGS</u>. 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.

<u>SEASONAL WINTERIZATION</u>. All unsurfaced roads or unfinished subgrades shall be waterbarred in accordance with the specifications in Exhibit H, and blocked from vehicular traffic prior to October 31, annually and as directed by STATE.

State Timber Sale Contract No. WL-341-2025-W01201-01 Bald Hill Salvage

EXHIBIT D

FOREST ROAD SPECIFICATIONS

GENERAL ROAD CONSTRUCTION INSTRUCTIONS:

- (1) <u>Excavated Materials</u>. Excavated materials shall be utilized for road construction and hauled in where necessary. Surplus excavation materials shall be hauled to the waste areas as marked in the field and/or designated on Exhibit A. Surplus excavated materials and waste materials shall be sloped and compacted for drainage. Fills shall be thoroughly compacted in accordance with this Exhibit. Excess excavated material not used for embankment shall be end hauled to waste areas as shown on Exhibit A and marked in the field.
- (2) <u>Drainage Ditches</u>. Construct ditchlines, including ditchouts, as directed by STATE. Cut slopes of ditchlines and ditchouts shall not exceed a 1:1 slope. Construct culvert sediment basins. Waste materials from drainage ditches and sediment basins shall be placed in nearby waste areas and uniformly sloped and compacted for drainage, as directed by STATE.
- (3) <u>Culvert Installation</u>. Fill construction backfill shall consist of select materials and may be obtained from borrow pits, as directed by STATE. Backfill materials shall be hauled in where necessary and thoroughly compacted in accordance with this Exhibit. STATE may require the use of crushed rock for culvert bedding.
- (4) <u>Equipment</u>. All excavation and riprap placement shall be performed using a minimum 1½ cubic-yard, track-mounted excavator.
- (5) <u>Subgrade Preparation and Application of Surfacing Rock</u>.
 - (a) Complete culvert installations, drainage ditches, ditchouts, fill construction, and other specified work prior to the application of surfacing rock.
 - (b) Subgrade shall be crowned, outsloped, or insloped at 4 to 6 percent.
 - (c) Upon completion of above required work, apply, process, and compact surfacing rock in accordance with specifications in the "Compaction and Processing Requirements" in Exhibit E. Final road surface shall be crowned, outsloped, or insloped at 4 to 6 percent.

FOREST ROAD SPECIFICATIONS

SPECIFIC ROAD CONSTRUCTION INSTRUCTIONS

1A to 1B

- 0+00 Begin Construction. Finished grade shall be between 20-25%.
- 6+90 Construct 70-ft landing.

Rocking

- 0+00 Begin 6" lift of 3"-0" crushed base rock. Cap with a 2" lift of 1 ½"-0" crushed rock.
- 6+90 Rock landing with 40-cy of Pit-Run.

2A to 2B

- 0+00 Begin Construction. Install 18" x 30' Polyethylene cross drain under takeoff of new spur. Utilize on-site large rocks for cut and fill construction.
- 2+05 Begin curve widening 8-ft.
- 3+65 End curve widening. Align new construct with existing surface road.

6+90 Construct 70-ft landing.

Stations	Max. Grade
0+00 to 3+65	18%
3+65 to 6+90	23%

Rocking

- 0+00 Begin 6" lift of 3"-0" crushed base rock. Cap with a 2" lift of $1 \frac{1}{2}$ "-0" crushed rock. Utilize 20cy of $1 \frac{1}{2}$ "-0" crushed rock for culvert backfill and bedding.
- 2+05 Increase surface width for curve widening and rock with 6" of 3"-0" crushed rock.
- 3+65 End rocking curve widening.
- 6+90 Rock landing with 40-cy of Pit-Run.

FOREST ROAD SPECIFICATIONS

GENERAL ROAD IMPROVEMENT, SURFACE ROCK REPLACEMENT, AND MAINTENANCE INSTRUCTIONS:

- (1) <u>Grading of Existing Rock</u>. Grade existing road surface.
- (2) <u>Application of a Lift of Surfacing Rock</u>.
 - (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 Exhibit E.
- (3) <u>Roadside Brushing</u>. Conduct roadside brushing as specified in Exhibit J.
- (4) <u>Timber Removal</u>. Remove all trees within posted Right-of-Way Boundary as specified in Section 2210, Designated Timber.
- (5) <u>Excavated Materials</u>. Excavated materials shall be utilized for road and fill construction and hauled in where necessary. Surplus excavation materials shall be hauled to the waste areas as marked in the field and/or designated on Exhibit A. Surplus excavated materials and waste materials shall be sloped and compacted for drainage. Excess excavated material not used for embankment shall be end hauled to waste areas as shown on Exhibit A and marked in the field.
- (6) <u>Bank Slough Removal</u>. 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.
- (7) <u>Culvert Replacement, Culvert Installation, Fill Reconstruction, and Fill Removal</u>. Existing culvert geometry shall be modified to provide for optimum drainage and culvert performance. Modifications may include, skewing the culvert and/or installing the culvert at gradients equal to or exceeding the drainage (or ditch) gradient. Where fill reconstruction or culvert replacement is specified, fills shall be excavated to natural stream course levels. All woody debris encountered during fill excavation shall be removed. Fill reconstruction backfill shall consist of select materials and may be obtained from borrow pits, as directed by STATE. Unsuitable backfill material shall be hauled to the designated waste areas as marked in the field and/or designated on Exhibit A. Backfill materials shall be hauled in where necessary and thoroughly compacted in accordance with this Exhibit.
- (8) <u>Drainage Ditches</u>. Restore or construct ditchlines, including ditchouts, as directed by STATE. Clean out all culvert inlets and outlets for a 10-foot radius. Re-establish or construct culvert sediment basins. Waste materials from drainage ditches and sediment basins shall not be pulled across existing surfacing rock, but shall be placed in nearby waste areas.
- (9) Sod Removal. Remove/separate sod from crushed rock surfacing as directed by STATE. Sod material shall be scattered in stable locations through openings in the timber outside of the cleared right-of-way. In areas where sod cannot be scattered in a stable location, material shall be end hauled to designated waste areas as shown on Exhibit A, or other stable locations as directed by STATE.
- (10) <u>Equipment</u>. All excavation and riprap placement shall be performed using a minimum 1½ cubic yard, track-mounted excavator.

FOREST ROAD SPECIFICATIONS

GENERAL ROAD IMPROVEMENT, SURFACE ROCK REPLACEMENT, AND MAINTENANCE INSTRUCTIONS:

- (11) <u>Waste areas</u> shall be uniformly sloped and compacted for drainage. Designated Waste materials shall be seeded and mulched in accordance with specifications in Exhibit I.
- (12) <u>Application of Culvert Surfacing Rock</u>. Complete culvert installations, drainage ditches, fill reconstruction, ditchouts, and other specified work prior to the application of new surfacing rock.

SPECIFIC ROAD IMPROVEMENT, SURFACE ROCK REPLACEMENT, AND MAINTENANCE INSTRUCTIONS:

Bald Hill Road (I-1 to I-2)

- Road-side brush in accordance with Exhibit J.
- Apply 50-cy of 1 ¹/₂"-0" crushed spot rock as directed by STATE.
- Remove bank slough and clean out culvert inlets and outlets.
- Remove woody debris from road prism.
- Remove any berms on the outside edge of the road.
- Endhaul waste to an approved waste area, or as shown on Exhibit A.
- Establish proper drainage.

Old Man Creek Road (I-2 to I-4)

- Apply 50-cy of 1 $\frac{1}{2}$ "-0" crushed spot rock as directed by STATE.
- At station 15+35, reconstruct 70-ft roadside landing. Rock with 50-cy of Pit-Run.
- Remove bank slough and clean out culvert inlets and outlets.
- Remove woody debris from road prism.
- Remove any berms on the outside edge of the road.
- Endhaul waste to an approved waste area, or as shown on Exhibit A.
- Establish proper drainage.

Brush Creek Road (I-2 to I-3)

- Apply a 2" lift of 1 1/2"-0" crushed rock from Point I2 to Point 1A.
- Remove woody debris from road prism.
- Remove bank slough and clean out culvert inlets and outlets.
- Remove any berms on the outside edge of the road.
- Endhaul waste to an approved waste area, or as shown on Exhibit A.
- Establish proper drainage.

ROAD SURFACING

ROAD	ROCK TYPE	ROCK SIZE	COMPACTED DEPTH	YDS ³ /STA	TOTAL STATIONS	POIN	O STA. IT TO INT	APPROX. TOATAL YDS ³
Brush Creek	CAP	1 1/2"-0"	2"	11	6.60	0+00	6+60	70
1A-1B	BASE	3"-0"	6"	33	3.05	0+00	3+05	100
1A-1B	CAP	1 1/2"-0"	2"	11	3.05	0+00	3+05	30
2A-2B	BASE	3"-0"	6"	33	6.90	0+00	6+90	230
2A-2B	CAP	1 1/2"-0"	2"	11	6.90	0+00	6+90	80
LANDINGS								
ROAD		ROCK SIZE	COMPACTED DEPTH	YDS ³ /STA	STATIONS	STA	ΓΙΟΝ	APPROX. TOATAL YDS ³
Old Man Creek		Pit Run	6"	50	1.00	15-	+35	50
1A-1B		Pit Run	6"	40	1.00	3+	-05	40
2A-2B		Pit Run	6"	40	1.00	6+	-90	40
SPOT AND CU	JRVE WIDE	NING ROCK						
ROAD		ROCK SIZE	COMPACTED DEPTH	Yds ³ /Point	# POINTS	STA	ΓΙΟΝ	APPROX. TOATAL YDS ³
Bald Hill Road	SPOT	3"-0"		10	5			50
Old Man Creek	SPOT	3"-0"		10	2			20
2A-2B	CURVE	3"-0"		60	1	2+05 t	o 3+65	60
BACKFILL/ D	BACKFILL/ DRAIN ROCK							
ROAD		ROCK SIZE	COMPACTED DEPTH	Yds ³ /Point	# POINTS	STA	ΓΙΟΝ	APPROX. TOATAL YDS ³
2A-2B		1 1/2"-0"		20	1	0+	-00	20

TOTAL ROCK	3"-0 Crushed	1 ½"-0 Crushed	Pit-Run
790 CY	460 CY	200 CY	130 CY

Roads shall be uniformly graded, shaped and approved by STATE prior to rocking.

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.

<u>Depth Measurement</u>. 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.

<u>Load Records</u>. 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 must be submitted.

COMPACTION AND PROCESSING REQUIREMENTS

<u>Moisture Content</u>: Compaction must take place when moisture content of the materials being compacted is favorable for effective compaction as determined by STATE.

<u>Compaction Pass</u>: A pass is defined as traveling a road section forward and then backward over that same section.

<u>Subgrade</u>. Subgrade surfaces of the road segments listed below shall be graded and compacted prior to rocking. Compaction shall be accomplished by traveling all surfaces from shoulder to shoulder until the surface is smooth and hard and visible deformation ceases. At least 3 passes shall be made over the entire width and length of the road. Compaction shall be accomplished by using one or more of the approved equipment options listed below:

Subgrade shall be crowned, outsloped, or insloped at 4 to 6 percent as specified in the "Forest Roads Specifications" table in Exhibit D.

ROAD SEGMENT	SUBGRADE COMPACTION OPTIONS
Bald Hill Road, Old Man Creek Road, Brush Creek, 1A to 1B, 2A to 2B	(1), (9)

<u>Fills</u>. Embankments and fills shall be placed in (approximately) horizontal layers not more than 8 inches in depth. Each layer shall be separately, and thoroughly, compacted. Compaction equipment shall be operated over the entire width of each layer until visible deformation of the layers ceases. At least 3 passes shall be made over the entire width and length of each layer.

Placing individual rocks or boulders with more depth than the allowed layer thickness shall be permitted, provided the embankment will accommodate them. Such rocks and boulders shall be at least 6 inches below the subgrade. They shall be carefully distributed and the voids filled with finer material, forming a dense and compacted mass. Compaction shall be accomplished by using one or more of the approved equipment options listed below:

ROAD SEGMENT	FILLS COMPACTION OPTIONS
1A to 1B, 2A to 2B	(1), (3), (4), (8), (9)

<u>Crushed Rock</u>. The rock shall be uniformly mixed and spread in layers on the approved roadbed. Each layer of crushed rock shall be moistened or dried to uniform moisture content suitable for maximum compaction and compacted in layers not to exceed 6 inches in depth. When more than 1 layer is required, each shall be shaped, compacted, and approved by STATE before the succeeding layer is placed. Any irregularities or depressions that develop during compaction of the top layer shall be corrected by loosening the material at these places and adding or removing material until the surface is smooth and uniform. Each layer shall be compacted with a minimum of 3 passes over the entire width and length of the road until the surface is smooth and hard and visible deformation ceases. Compaction shall be accomplished by using one or more of the approved equipment options listed below:

Rock shall be compacted and processed during the same project period it is spread, unless otherwise approved in writing by STATE.

Rock shall be crowned, outsloped, or insloped at 4 to 6 percent as specified in the "Forest Roads Specifications" table in Exhibit D.

COMPACTION AND PROCESSING REQUIREMENTS

ROAD SEGMENT	CRUSHED COMPACTION OPTIONS
All road segments requiring crushed rock.	(1), (8), (9)

<u>Pit-Run Rock</u>. The rock shall be uniformly mixed and spread in layers on the approved roadbed. Each layer of pit-run rock shall be moistened or dried to uniform moisture content suitable for maximum compaction and compacted in layers not to exceed 8 inches in depth. When more than 1 layer is required, each shall be shaped and compacted before the succeeding layer is placed. Any irregularities or depressions that develop during compaction of the top layer shall be corrected by loosening the material at these places and adding or removing material until the surface is smooth and uniform. Each layer shall be compacted with a minimum of 3 passes over the entire width and length of the road. Compaction shall be accomplished by using one or more of the approved equipment options listed below:

Rock shall be crowned, outsloped, or insloped at 4 to 6 percent as specified in the "Forest Roads Specifications" table in Exhibit D.

ROAD SEGMENT	PIT-RUN COMPACTION OPTIONS
1A to 1B STA. 3+05	(1) & (9)
2A to 2B, STA 6+90	(1) & (9)
Old Man Creek Road STA 15+35	(1) & (9)

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EXHIBIT E

COMPACTION EQUIPMENT OPTIONS

- (1) <u>Vibratory Rollers</u>. The drum shall have a smooth surface, a diameter not less than 48 inches, a width not less than 58 inches, and a turning radius of 15 feet or less. Vibration frequency shall be regulated in steps to 1400, 1500, and 1600 VPM, corresponding to engine speeds of 1575, 1690, and 1800 RPM. The centrifugal force developed shall be 7 tons at 1600 VPM. It shall be activated by a power unit of not less than 25 horsepower. The vibratory roller shall be self-propelled and operated at speeds ranging from 0.9 miles to 1.8 miles per hour, as directed by STATE.
- (3) <u>Tampingfoot Compactors</u>. Tampingfoot compactors shall exert a minimum pressure of 250 pounds per square inch on the ground area in contact with the tamping feet. The compactor shall cover a minimum width of 60 inches per pass and weigh a minimum of 16,000 pounds.
- (4) <u>Vibratory Hand-Operated or Backhoe-Mounted Tamper</u>. Vibratory hand-held or hydraulic tampers shall be used for compaction of backfill materials around culverts. The tamper shoe dimensions shall be a minimum of 10" X 13" and capable of a centrifugal force of 2,250 pounds.
- (8) <u>Dozer</u>. A dozer/track-type tractor weighing a minimum of 45,000 pounds as directed by STATE shall be operated over the pit-run rock so that the entire surface comes in contact with the tracks.
- (9) <u>As Approved by STATE.</u>

EXHIBIT F

CULVERT SPECIFICATIONS

All culvert materials shall be furnished and installed by PURCHASER, unless otherwise specified in the Contract.

Culverts 30 inches in diameter and smaller shall be constructed of corrugated polyethylene. Culverts larger than 30 inches in diameter shall be constructed of corrugated aluminized Type 2 steel. Polyethylene culverts shall be double-walled and meet the requirements of AASHTO M-294-11, Type S, or ASTM F2648. Aluminized (Type 2) steel culverts shall meet the requirements of AASHTO M-36-03¹.

Polyethylene joints shall be made with split couplings, corrugated to engage the culvert corrugations, and shall engage a minimum of 4 corrugations, 2 on each side of the culvert joint.

Culverts shall be located according to the alignment and grade as shown on the Plan and Profile, and/or as staked in the field, or as specified in special instructions.

The STATE Representative shall determine final culvert locations and stake the locations in the field prior to installation.

Culverts in live streams shall be installed with the inlet and outlet on grade with the stream bottom, unless otherwise specified in writing.

Cross Drain Culverts

Cross drain culverts on road grades in excess of 3 percent shall be skewed at least 30 degrees from perpendicular to the road centerline, except that cross drain culverts at the low point of dips in roads shall not be skewed. Cross drains shall be skewed to fit the required culvert length to the road prism.

Cross drain culverts shall be installed at a slope steeper than the incoming ditch grade, but not less than 3 percent or greater than 10 percent.

Disconnect Culverts

The culvert inlet shall be located as close to the channel that it is disconnecting, while the culvert outlet shall be located as far from the channel as possible; discharge culvert outflow on the forest floor, allowing for filtration before the water enters the disconnected channel.

The foundation and trench walls for all culverts shall be free from logs, stumps, limbs, stones, and other objects which would dent or damage the culvert. The culvert trench shall be excavated 3 culvert diameters wide to permit compaction and working on each side of the culvert. Tamping shall be done in 6-inch lifts, 1 culvert diameter each side of the culvert. Bedrock shall be excavated as required to provide a uniform foundation for the full length of the culvert.

A bedding of crushed rock as specified shall be placed to provide a wide band of support and to transmit the load from above evenly over the entire length of the culvert for all culverts.

Backfill shall consist of crushed rock on improvement segments and job-excavated soil free of stumps, limbs, rocks, or other objects which would damage the culvert on new construction segments.

Transporting of the culvert shall be done carefully. Dragging or allowing free fall from trucks or into trenches shall not be permitted.

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EXHIBIT F

CULVERT SPECIFICATIONS

Minimum height of cover over top of culvert to subgrade when road is to be rocked shall be as follows: 12 for culverts 18" to 36" and 18 for culverts 42" to 96" [add 6" for roads which will not be rocked]. Minimum vertical cover for other designs shall be as specified by STATE.

Lengths of individual culvert sections shall be not less than 10 feet, unless otherwise provided for in special instructions. The shortest culvert section length shall be placed at the inlet end.

The ends of each culvert shall be free of logs and debris which would restrict the free flow of water.

Compaction by tamping utilizing a Vibratory Hand-Operated or Backhoe-Mounted Tamper is required for all culverts.

All culverts scheduled for replacement shall become property of the PURCHASER and be removed from STATE land in the same project period in which replacement occurred. Damaged culvert inlets and/or outlets shall be repaired by opening them with a hydraulic jack, or cutting off the culvert end to allow for free passage of water at peak flow levels.

The intake ends of culverts in fills less than 3 feet to the top of the culvert shall be marked by driving steel posts within 6 inches of the downgrade side. Posts shall be painted with a rust-resistant paint and be a minimum of 5 feet long, with the spade driven 2 feet into the ground. Install a culvert marker at each existing culvert that is missing a marker that could be reached by a grader blade.

A manufacturer's certification that the product was manufactured, tested, and supplied in accordance with this specification shall be furnished to STATE upon request.

CULVERT LIST

CULVERT NO.	DIAMETER (Inches)	LENGTH (Feet)	MATERIAL TYPE	ROAD SEGMENT POINT TO POINT	STATION
1	18	30	CPP	2A to 2B	0+00

CPP = Polyethylene

EXHIBIT G

SOURCE CRUSHED ROCK SPECIFICATIONS

Grading Requirements

<u>For 1½"-0"</u>	Passing	2" sieve	100%
	Passing	1½" sieve	90-100%
	Passing	3/4" sieve	50-75%
	Passing	1/4" sieve	25-55%
	Passing	No. 10 sieve	10-25%
	Passing	No. 40 sieve	5-15%
<u>For 3"-0"</u>	Passing	4" sieve	100%
	Passing	3" sieve	90-100%
	Passing	1½" sieve	50-80%
	Passing	3/4" sieve	30-60%
	Passing	1/4" sieve	10-30%
	Passing	No. 10 sieve	0-20%

The referenced sieve shall have square openings as set forth in AASHTO M 92, Woven Cloth Series. The determinations of size and gradation shall be as set forth in AASHTO T 27.

PIT-RUN ROCK SPECIFICATIONS

For Pit-Run	Passing	10" sieve	100%
	Passing	6" sieve	60-85%
	Passing	3" sieve	30-50%
	Passing	1⁄4" sieve	0-10%

Control of gradation shall be by visual inspection by STATE.

EXHIBIT H

WATERBAR SPECIFICATIONS

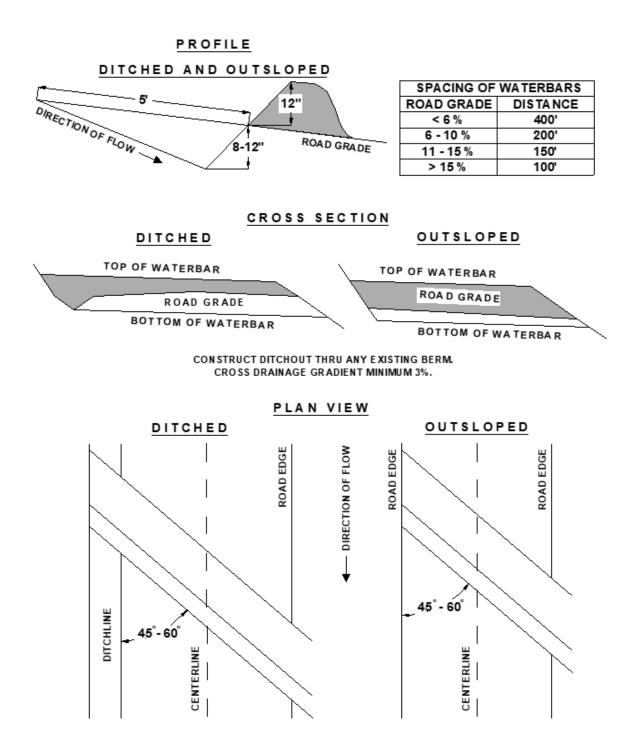


EXHIBIT I

SEEDING AND MULCHING

This work shall consist of preparing seedbeds and furnishing and placing required seed, fertilizer, and straw mulch. Straw mulch shall consist of straw that is free of noxious weeds. Apply seed, fertilizer, and straw mulch to all waste areas, and bare soils resulting from Project No. 2.

<u>Seeding Seasons</u>. Seeding shall be performed only from <u>March 1</u> through <u>June 15</u> and <u>August 15</u> through <u>October 31</u>. Seeding materials shall not be applied during windy weather or when the ground is excessively wet or frozen. Areas of disturbed soil shall be seeded by the end of the project period in which work was started. PURCHASER shall notify STATE within 24 hours of seeding and fertilizer application.

APPLICATION METHODS FOR SEED AND FERTILIZER

<u>Dry Method</u>. Mechanical seeders, seed drills, landscape seeders, cultipacker seeders, fertilizer spreaders, or other approved mechanical seeding equipment shall be used to apply the seed and fertilizer in the amounts and mixtures specified. Hand-operated seeding devices may be used when seed and fertilizer are applied in dry form.

APPLICATION RATES FOR SEED AND FERTILIZER

The seed mixture listed below shall be applied at 100 lbs. per acre. The seed mixture shall be comprised of the following:

SPECIES	MIXTURE	PURE LIVE SEED	GERMINATION
Annual Rye	33%	95%	>90%
Orchard Grass	33%	95%	>90%
Perennial Rye	34%	95%	>90%

<u>Fertilizer</u>: Chemical analysis shall be 16-20-0 and shall be applied at the rate of 200 pounds per acre. Fertilizer shall not be applied within 100 feet of streams.

Mulching Period. Straw mulch shall be applied within 24 hours of spreading grass seed and fertilizer.

APPLICATION RATES FOR MULCH

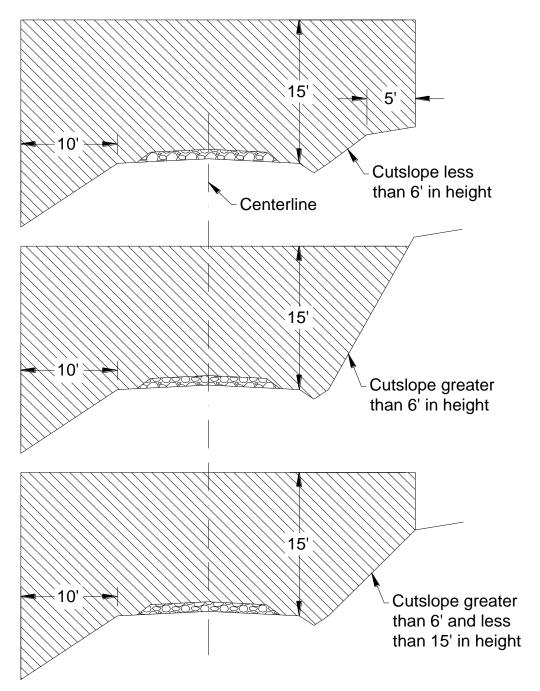
Place straw mulch to a reasonably uniform thickness of $1\frac{1}{2}$ to $2\frac{1}{2}$ inches. This rate requires between 2 and 3 tons of dry mulch per acre.

Application Locations:

Road Segment	Location	
1A to 1B	0+00 to 3+65	
Waste Area		

EXHIBIT J

[Height 20' for Mainline] [Height 15' for Collectors/Spurs]



ROAD BRUSHING SPECIFICATIONS