



**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: \_\_\_\_\_

(5) State Brand Information ( Complete)

(1) Contract Number: WL-341-2024-W00842-01

(2) Sale Name: Druggs Creek

(3) Contract Expiration Date: 05/31/2026

(4) Purchaser Name: \_\_\_\_\_

(6) State Representatives:

<u>Name</u>	<u>Circle One</u>	<u>Phone No.</u>	<u>Cell No.</u>	<u>Alt Phone</u>
	Logging Projects All			
	Logging Projects All			
	Logging Projects All			
	Logging Projects All			

(7) Purchaser Representatives:

<u>Name</u>	<u>Circle One</u>	<u>Phone No.</u>	<u>Cell No.</u>	<u>Alt Phone</u>
	Logging Projects All			
	Logging Projects All			
	Logging Projects All			
	Logging Projects All			
	Logging Projects All			
	Logging Projects All			
	Logging Projects All			

(8) Name of Subcontractors and Start Dates:

<u>Project No.</u>	<u>Subcontractor Name.</u>	<u>Start Date</u>	<u>Completion Date</u>	<u>Cell No.</u>	<u>Alt Phone</u>

	<u>Subcontractor Name.</u>	<u>Start Date</u>	<u>Cell No.</u>	<u>Alt Phone</u>
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**

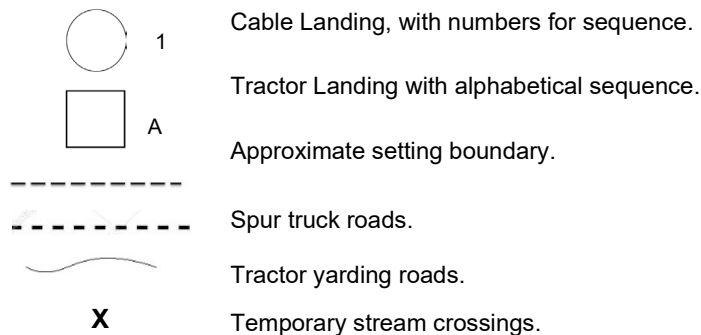
**INSTRUCTION SHEET FOR OPERATIONS PLAN**

**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.

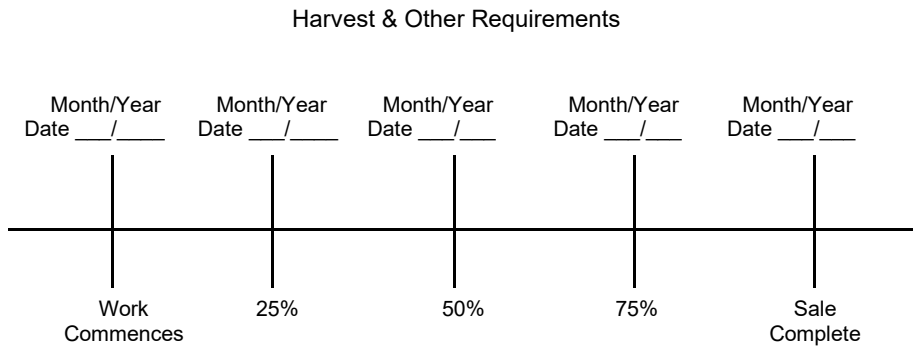
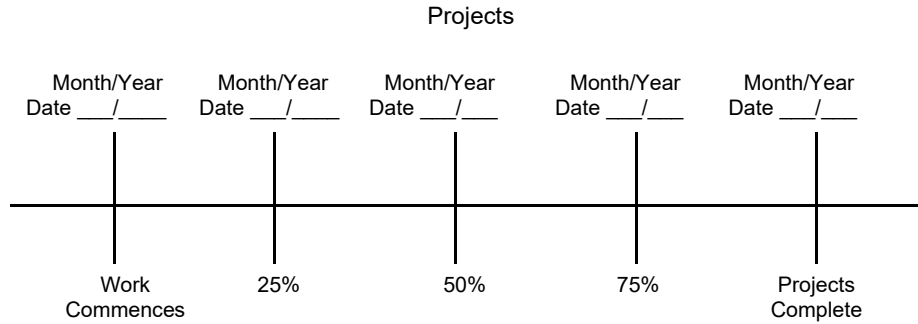




**Oregon Department of Forestry**  
 2600 State St Salem OR 97310  
 PART III: EXHIBITS  
**EXHIBIT B**  
**OPERATIONS PLAN**

**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.



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)  
 Address: 87950 TERRITORIAL HWY  
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'.

(7) Weight Scale Sample  YES  NO

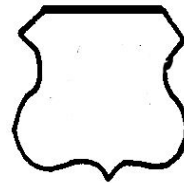
(8) APPROVED SCALING LOCATIONS <small>(as shown on the ODF Approved Locations web-site )</small>	Species	Yard	Truck	Weight

(9) SALE NAME: Druggs Creek  
 COUNTY: Lane

(10) STATE CONTRACT NUMBER:  
WL-341-2024-W00842-01

(11) STATE BRAND REGISTRATION NUMBER:  
 \_\_\_\_\_

(12) STATE BRAND INFORMATION:



(13) PAINT REQUIRED: YES   
 COLOR: Orange

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



**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: [services@crls.com](mailto: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](mailto:office@prlsb.com)

Mountain Western Log Scaling & Grading Bureau  
2560 NW Medical Park Drive, OR 97471  
Phone: (541) 673-5571 Fax: (541) 672-6381  
Email: [info@mwlsgb.com](mailto: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: [yamhilllog@frontier.com](mailto:yamhilllog@frontier.com)

Northwest Log Scalpers Inc.  
6137 NE 63rd St, Vancouver, WA, 98661  
Phone: (360) 553-7212 ext. 4 Fax:(360) 553-7213  
Email: [info@nwlogscalpers.com](mailto:info@nwlogscalpers.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: [https://apps.odf.oregon.gov/Divisions/management/asset\\_management/scalinglocation.asp](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.



**Oregon Department of Forestry  
 EXHIBIT C - PULP SORT  
 PROCESSING INSTRUCTIONS - LOCATION APPROVAL  
 BRAND INFORMATION**

Western Lane, SOA

(1) ORIGINAL REGISTRATION  Date \_\_\_\_\_  
 REVISION NUMBER 000  Date \_\_\_\_\_  
 CANCELLATION  Date \_\_\_\_\_

(2) TO: \_\_\_\_\_  
 (Approved Pulp Processing Facility)

(3) FROM: Western Lane Phone (541) 935-2283  
 (State Forestry District)  
 Address: 87950 TERRITORIAL HWY  
VENETA, OR 97487-0157

(4) PURCHASER: \_\_\_\_\_

(5) Scaling Bureau (TPSO) Processing Weight receipts:  
 \_\_\_\_\_

Mailing Address: \_\_\_\_\_

Phone Number: \_\_\_\_\_

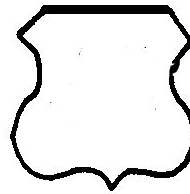
(9) SALE NAME: Druggs Creek

COUNTY: Lane

(10) STATE CONTRACT NUMBER:  
WL-341-2024-W00842-01

(11) STATE BRAND REGISTRATION NUMBER: \_\_\_\_\_

(12) STATE BRAND INFORMATION:



(13) REMARKS:  
 "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.

Operator's Name (Optional inclusion by District):  
 \_\_\_\_\_

(14) SIGNATURES:

\_\_\_\_\_  
 Purchaser or Authorized Representative Date

\_\_\_\_\_  
 State Forester Representative Date

\_\_\_\_\_  
 State Forester Representative PRINT NAME

(6) STATE Definition of Approved Pulp Sort:  
 • Top portion of the tree (tops).  
 • All logs with a diameter (Big End) greater than 8 inches marked with blue paint.

(7) PULP FACILITY PROCESSING INSTRUCTIONS:  
 • Pulp loads shall be weighed in lieu of scaling.  
 • One Ton = 2000 lbs (Short Ton).  
 • Pulp loads shall have a yellow Log Load Receipt attached.  
 • Gross weight and truck tare weight for each load shall be machine printed on the weight receipt.  
 • Weigher shall sign the weight receipt.  
 • 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 [https://apps.odf.oregon.gov/Divisions/management/asset\\_management/scalinglocation.asp](https://apps.odf.oregon.gov/Divisions/management/asset_management/scalinglocation.asp)
- (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: [services@crls.com](mailto: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](mailto:office@prlsb.com)

Mountain Western Log Scaling & Grading Bureau  
2560 NW Medical Park Drive, Roseburg, OR 97471  
Phone: (541) 673-5571 Fax: (541) 672-6381  
Email: [info@mwlsgb.com](mailto: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: [yamhilllog@frontier.com](mailto:yamhilllog@frontier.com)

Northwest Log Scalars Inc.  
6137 NE 63rd St, Vancouver, WA, 98661  
Phone: (360) 553-7212 ext. 4 Fax:(360) 553-7213  
Email: [info@nwlogscalars.com](mailto:info@nwlogscalars.com)

- (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 8 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 and print name on the form. Signatures not required on revisions.



EXHIBIT D

FOREST ROAD SPECIFICATIONS

Road	Subgrade Width	Surfaced Width	STATION TO STATION	Drainage
Swamp Creek Rd & 16-8-1	16 feet	12 feet	Existing	Maintain Existing
Spur 1a	16 feet	12 feet	0+00 to 3+50	Ditched
Spur 1b	16 feet	12 feet	0+00 to 2+45	Ditched
Spur 1c	16 feet	12 feet	0+00 to 3+95	Ditched
Spur 1d	16 feet	12 feet	0+00 to 7+60	Ditched
Spur 1e	16 feet	12 feet	0+00 to 12+20	Ditched

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 – 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. The “Road Clearing Specifications” in Exhibit G 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.





## “Stewardship in Forestry”

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State Timber Sale Contract  
No. WL-341-2024-W00842-01  
Druggs Creek

### EXHIBIT D

#### FOREST ROAD SPECIFICATIONS

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 shall be piled 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.

All Piles: shall be piled or placed, at least 50 feet from Residual Trees, Snags, large down woody debris, and firewood piles, unless otherwise directed by state.

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

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.

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.

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

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

TURNOUTS. 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: Intervisible but not greater than 750 feet apart and as marked in the field.



“Stewardship in Forestry”

State Timber Sale Contract  
No. WL-341-2024-W00842-01  
Druggs Creek

EXHIBIT D

FOREST ROAD SPECIFICATIONS

SLOPES.

Solid Rock

Fractured Rock

Soil - side slopes 50% and over

Soil - side slopes less than 50%

Cut Slopes

Vertical to 1/4 :1

1/4:1

3/4 :1

1 :1

Fill Slopes

1 1/2:1

1 1/2:1

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 crowned 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 H, and blocked from vehicular traffic prior to October 31, annually and as directed by STATE.



## “Stewardship in Forestry”

State Timber Sale Contract  
No. WL-341-2024-W00842-01  
Druggs Creek

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### EXHIBIT D

#### FOREST ROAD SPECIFICATIONS

##### GENERAL ROAD CONSTRUCTION INSTRUCTIONS:

- (1) Roadside Clearing. Conduct roadside clearing as specified in Exhibit G.
- (2) Timber Removal. Remove all trees within posted right-of-way, as specified in Section 2210, “Designated Timber.”
- (3) Bank Slough Removal. Dig out all bank slough. Bank slough material shall not be pulled across existing surfacing rock, but shall be placed in nearby waste areas and uniformly sloped and compacted for drainage, as directed by STATE.
- (4) Drainage Ditches. Restore or construct ditch lines, including ditchouts, as directed by STATE. Clean out any plugged culvert inlets and outlets. Waste materials from drainage ditches and sediment basins shall not be pulled across existing surfacing rock, but shall be placed in nearby waste areas and uniformly sloped and compacted for drainage, as directed by STATE. 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.
- (5) Excavated Materials. 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 or pushed to waste areas as shown on Exhibit A and marked in the field.
- (6) Drainage Ditches. 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.)
- (7) Equipment. All excavation shall be performed using a minimum 1½ cubic-yard, track-mounted excavator.
- (8) Controlled Blasting. Controlled blasting techniques shall be utilized for any blasting operations, and shall be accomplished using timing devices, delayed charges, low intensity shots, or other suitable means to contain material within the road prism.
- (9) Subgrade Preparation and Application of Surfacing Rock.
  - (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 this Exhibit. Final road surface shall be crowned, outsloped, or insloped at 4 to 6 percent.



“Stewardship in Forestry”

State Timber Sale Contract  
No. WL-341-2024-W00842-01  
Druggs Creek

EXHIBIT D

FOREST ROAD SPECIFICATIONS

SPECIFIC ROAD CONSTRUCTION INSTRUCTIONS

**Swamp Creek Road & 16-8-1**

Subgrade Instructions:

Point C            Construct 40’ roadside landing.

Rocking Instructions:

Point C            Apply 30cy of pit run for landing.

**Spur 1a**

Subgrade Instructions:

0+00            Begin reconstruction of existing road grade.

3+50            Reconstruct 60’ landing. End construction.

Rocking Instructions:

0+00 to 3+50    Apply a total of 120cy of 3”-0” base rock. Approx. 33cy per station.

Apply a total of 40cy of 1 ½”-0” cap rock. Approx. 11cy per station.

3+50            Apply 40cy of pit run for landing.

**Spur 1b**

Subgrade Instructions:

0+00            Begin reconstruction of existing road grade.

2+45            Reconstruct 60’ landing. End construction.

Rocking Instructions:

0+00 to 2+45    Apply a total of 80cy of 3”-0” base rock. Approx. 33cy per station.

Apply a total of 30cy of 1 ½”-0” cap rock. Approx. 11cy per station.

2+45            Apply 40cy of pit run for landing.



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### EXHIBIT D

### FOREST ROAD SPECIFICATIONS

#### SPECIFIC ROAD CONSTRUCTION INSTRUCTIONS

##### **Spur 1c**

##### Subgrade Instructions:

- |      |  |
|------|--|
| 0+00 | Begin reconstruction of existing road grade. |
| 1+80 | Construct truck turnaround.                  |
| 3+95 | Reconstruct 60' landing. End construction.   |

##### Rocking Instructions:

- |              |  |
|--------------|--|
| 0+00 to 3+95 | Apply a total of 130cy of 3”-0” base rock. Approx. 33cy per station.<br>Apply a total of 40cy of 1 ½”-0” cap rock. Approx. 11cy per station. |
| 1+80         | Rock truck turnaround with 20cy of 3”-0” base rock.  |
| 3+95         | Apply 40cy of pit run for landing.   |

##### **Spur 1d**

##### Subgrade Instructions:

- |              |  |
|--------------|--|
| 0+00         | Begin reconstruction of existing road grade.               |
| 1+90 to 2+40 | Extended subgrade approximately 8 feet for curve widening. |
| 3+60         | Construct truck turnaround.                                |
| 7+60         | Reconstruct 70' landing. End construction.                 |

##### Rocking Instructions:

- |              |  |
|--------------|--|
| 0+00 to 7+60 | Apply a total of 250cy of 3”-0” base rock. Approx. 33cy per station.<br>Apply a total of 80cy of 1 ½”-0” cap rock. Approx. 11cy per station. |
| 1+90 to 2+40 | Rock curve widening with 40cy of 3”-0” base rock.  |
| 3+60         | Rock truck turnaround with 20cy of 3”-0” base rock.  |
| 7+60         | Apply 40cy of pit run for landing.   |



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EXHIBIT D

FOREST ROAD SPECIFICATIONS

SPECIFIC ROAD CONSTRUCTION INSTRUCTIONS

**Spur 1e**

Subgrade Instructions:

- |              |   |
|--------------|---|
| 0+00         | Begin reconstruction of existing road grade.                |
| 0+35 to 1+60 | Extended subgrade approximately 8 feet for curve widening.  |
| 2+90         | Clean out inlet and outlet of existing cross drain culvert. |
| 9+45         | Construct truck turnaround.                                 |
| 12+20        | Reconstruct 60' landing. End construction.                  |

Rocking Instructions:

- |               |   |
|---------------|---|
| 0+00 to 12+20 | Apply a total of 270cy of 3”-0” base rock. Approx. 33cy per station.<br>Apply a total of 130cy of 1 ½”-0” cap rock. Approx. 11cy per station. |
| 0+35 to 1+60  | Rock curve widening with 40cy of 3”-0” base rock.   |
| 9+45          | Rock truck turnaround with 20cy of 3”-0” base rock.   |
| 12+20         | Apply 40cy of pit run for landing.  |



EXHIBIT D  
FOREST ROAD SPECIFICATIONS

GENERAL ROAD IMPROVEMENT INSTRUCTIONS:

- (1) Timber Removal. Remove all trees within posted Right-of-Way Boundary as specified in Section 2210, Designated Timber.
- (2) Excavated Materials. 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. Fills shall be thoroughly compacted in accordance with Exhibit F.
- (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) Culvert Replacement, Culvert Installation, Fill Reconstruction, and Fill Removal. 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.
- (5) Drainage Ditches. 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 end-hauled to an approved waste area, as directed by STATE. 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. Install a culvert marker at each newly installed culvert and at each existing culvert that is missing a marker that could be reached by a grader blade.
- (6) 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.)
- (7) Equipment. All excavation placement shall be performed using a minimum 1½ cubic yard, track-mounted excavator.
- (8) Waste Areas. shall be uniformly sloped and compacted for drainage. Designated Waste materials shall be seeded and mulched in accordance with specifications in Exhibit I.
- (9) Subgrade Preparation Before Application of Surfacing Rock. Complete culvert installations, drainage ditches, fill reconstruction, ditchouts, and other specified work prior to the application of new surfacing rock.



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EXHIBIT D

FOREST ROAD SPECIFICATIONS

SPECIFIC ROAD IMPROVEMENT INSTRUCTIONS

**Swamp Creek Road & 16-8-1**

- 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.
- Clean inlet and outlet of cross drain culverts.

GENERAL ROAD MAINTENANCE INSTRUCTIONS:

- 1 Roadside Clearing. Conduct roadside clearing as specified in Exhibit G.
- 2 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 cap 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) Upon completion of above required work, apply, process, and compact surfacing rock in accordance to this Exhibit.

SPECIFIC ROAD MAINTENANCE INSTRUCTIONS

**Swamp Creek Road & 16-8-1**

Rocking

- Apply 200cy of spot rock as needed.





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EXHIBIT E  
 ROAD SURFACING

ROAD	ROCK TYPE	ROCK SIZE	COMPACTED DEPTH	YDS <sup>3</sup> /STA	TOTAL STATIONS	STA. TO STA. POINT TO POINT		APPROX. TOATAL YDS <sup>3</sup>
Spur 1a	BASE	3"-0"	6"	33	3.50	0+00	3+50	120
Spur 1a	CAP	1 1/2"-0"	2"	11	3.50	0+00	3+50	40
Spur 1b	BASE	3"-0"	6"	33	2.45	0+00	2+45	80
Spur 1b	CAP	1 1/2"-0"	2"	11	2.45	0+00	2+45	30
Spur 1c	BASE	3"-0"	6"	33	3.95	0+00	3+95	130
Spur 1c	CAP	1 1/2"-0"	2"	11	3.95	0+00	3+95	40
Spur 1d	BASE	3"-0"	6"	33	7.60	0+00	7+60	250
Spur 1d	CAP	1 1/2"-0"	2"	11	7.60	0+00	7+60	80
Spur 1e	BASE	3"-0"	6"	22	12.20	0+00	12+20	270
Spur 1e	CAP	1 1/2"-0"	2"	11	12.20	0+00	12+20	130
<b>LANDINGS</b>								
ROAD		ROCK SIZE	COMPACTED DEPTH	YDS <sup>3</sup> /STA	STATIONS	STATION		APPROX. TOATAL YDS <sup>3</sup>
Swamp Cr & 16-8-1		Pit Run	6"	30	1.00	Point C		30
Spur 1a		Pit Run	6"	40	1.00	3+50		40
Spur 1b		Pit Run	6"	40	1.00	2+45		40
Spur 1c		Pit Run	6"	40	1.00	3+95		40
Spur 1d		Pit Run	6"	40	1.00	7+60		40
Spur 1e		Pit Run	6"	40	1.00	12+20		40
<b>TRUCK TURN AROUND</b>								
ROAD		ROCK SIZE	COMPACTED DEPTH	Yds <sup>3</sup> /Point	NO. OF TURN AROUNDS	STATION		APPROX. TOATAL YDS <sup>3</sup>
Swamp Cr & 16-8-1		3"-0"	6"	40	1	Point B		40
Spur 1c		3"-0"	6"	20	1	1+80		20
Spur 1d		3"-0"	6"	20	1	3+60		20
Spur 1e		3"-0"	6"	20	1	9+45		20
<b>SPOT AND CURVE WIDENING ROCK</b>								
ROAD		ROCK SIZE	COMPACTED DEPTH	Yds <sup>3</sup> /Point	# POINTS	STATION		APPROX. TOATAL YDS <sup>3</sup>
Swamp Cr & 16-8-1		1 1/2"-0"		10	20	As Needed		200
Spur 1d		3"-0"	6"	40	1	1+90 to 2+40		40
Spur 1e		3"-0"	6"	40	1	0+35 to 1+60		40



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EXHIBIT E  
ROAD SURFACING

<b>Rock Totals</b>	<b>Pit Run</b>	<b>3"-0"</b>	<b>1 1/2"-0"</b>
LOOSE TRUCK Cu. Yds	230	1030	520

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.



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### EXHIBIT E

#### 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 must be submitted.



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EXHIBIT F

COMPACTION AND PROCESSING REQUIREMENTS

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

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

**Subgrade.** 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
Swamp Creek Rd & 16-8-1, Spur 1a, Spur 1b, Spur 1c, Spur 1d, Spur 1e	(1)

**Fills.** 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
Spur 1a, Spur 1b, Spur 1c, Spur 1d, Spur 1e	1, 4, & 8

**Crushed Rock.** 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.



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EXHIBIT F

COMPACTION AND PROCESSING REQUIREMENTS

ROAD SEGMENT	CRUSHED COMPACTION OPTIONS
All road segments requiring crushed rock.	1 & 8

Pit-Run Rock. 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:

COMPACTION EQUIPMENT OPTIONS

- (1) Vibratory Rollers. 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.
- (4) Vibratory Hand-Operated or Backhoe-Mounted Tamper. Vibratory hand-held or hydraulic tampers shall be used for compaction of backfill materials around culverts (and/or bridge approach embankment materials around abutments). The tamper shoe dimensions shall be a minimum of 10" X 13" and capable of a centrifugal force of 2,250 pounds.
- (8) As Approved by STATE.



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EXHIBIT F

SOURCE CRUSHED ROCK SPECIFICATIONS

Grading Requirements

<u>For 1½"-0"</u>	Passing	2" sieve	100%
	Passing	1½" sieve	90-100%
	Passing	¾" sieve	50-75%
	Passing	¼" 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	¾" sieve	30-60%
	Passing	¼" 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.

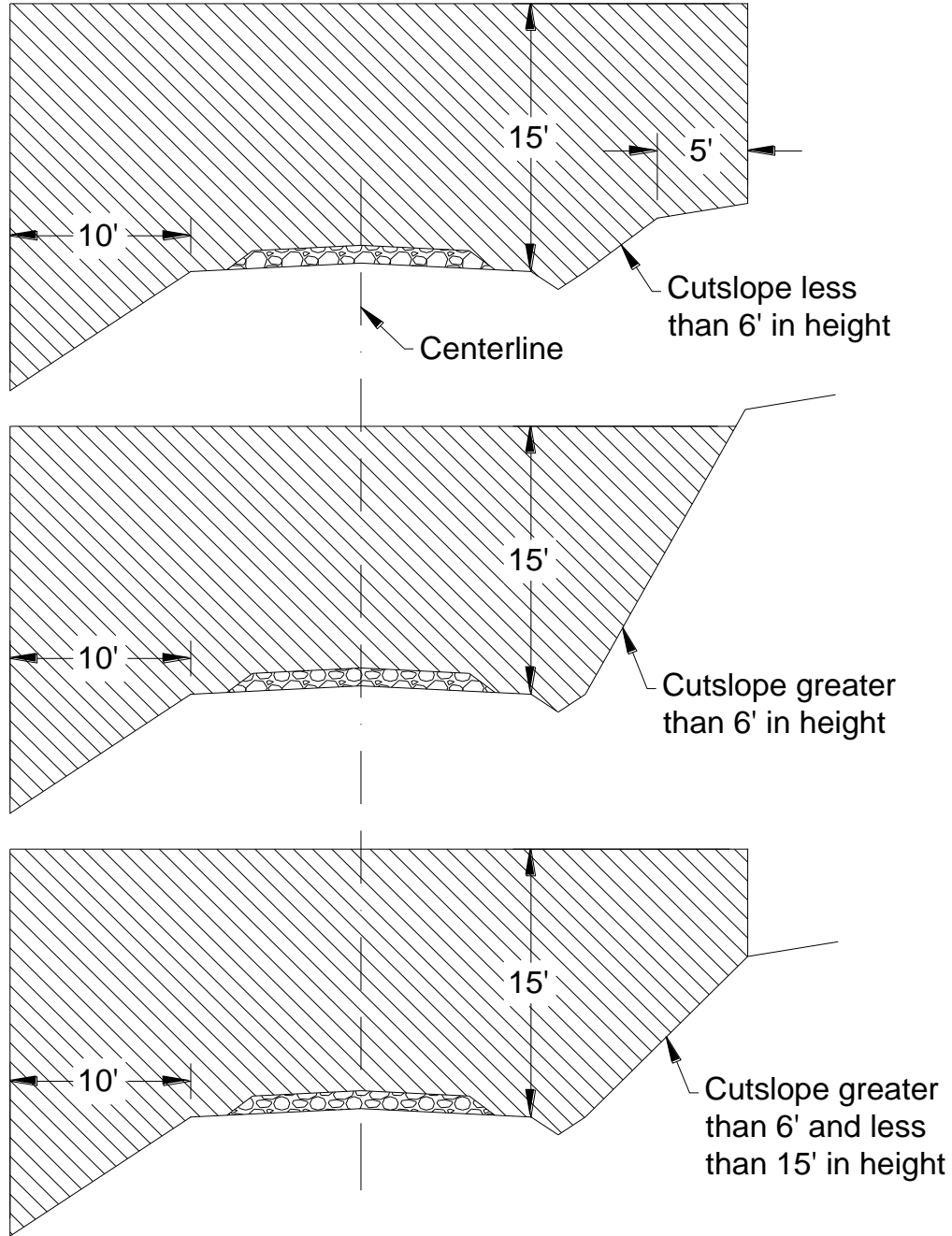
PIT-RUN ROCK SPECIFICATIONS

For Pit-Run	Passing	10" sieve	100%
	Passing	6" sieve	60-85%
	Passing	3" sieve	30-50%
	Passing	¼" sieve	0-10%

Control of gradation shall be by visual inspection by STATE.



EXHIBIT G  
ROAD CLEARING SPECIFICATIONS





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### EXHIBIT G

#### ROAD CLEARING SPECIFICATIONS

##### REQUIREMENTS

The minimum height of clearing shall be 15 feet from the road surface, and the minimum width of clearing on the cut slope side(s) of the road shall be 15 feet horizontal distance from the shoulder of the road and 10 feet horizontal on the down slope side from the road shoulder. The minimum width of brushing on the cut slope side of the road shall be dictated by the height of the cut slope as indicated in the drawing above. In situations where site distance is an issue brushing heights on the cut slope may vary from the drawing, as directed by STATE.

For cut slopes less than 6 feet in height, brushing shall extend 5 feet beyond the top of cut slope. For cut slopes greater than 6 feet in height, brushing shall extend 15 feet horizontal distance from the road shoulder.

Brush and trees shall be cut to a maximum height of 6 inches above the ground surface or obstructions such as rocks or existing stumps.

Debris resulting from the brushing operation shall be removed from the roadway, cut slope, ditches, water courses, culvert inlets and outlets and sediment catching basins. Debris shall be mulched or scattered downslope from the road or placed in other stable locations. Large debris, 6 inches or larger in diameter, shall be mulched or cut into lengths 6 feet or less to facilitate rapid decay, unless otherwise approved by STATE.

Trees larger than 6 inches in diameter at stump height, located within clearing limits but outside of the ditch line or shoulder, shall not be cut down, but shall be limbed for road visibility. Planted or established conifers, located within brushing limits but outside of the ditch line or shoulder, shall not be cut down, but shall be limbed for road visibility unless otherwise directed by STATE.

Existing debris on the roadway, cut slope, ditch line, or catch basin shall be removed and treated. Debris shall be mulched or scattered downslope from the road or placed in other stable locations. Large non-merchantable debris, 6 inches or larger in diameter, shall be mulched or cut into lengths 6 feet or less to facilitate rapid decay, unless otherwise approved by STATE.

Merchantable blown down trees encountered shall be bucked in lengths as directed by STATE, and placed in locations acceptable to STATE, or pushed out of the road prism.

When spur roads to be brushed end with a Landing, the Landing is to be brushed as directed by STATE.

CULVERT AND ROAD MARKER DAMAGES. Culvert and road markers damaged, or any portion of a marker damaged from PURCHASER activities shall be replaced



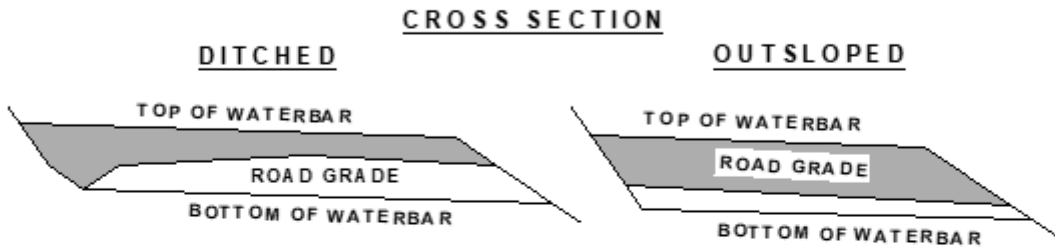
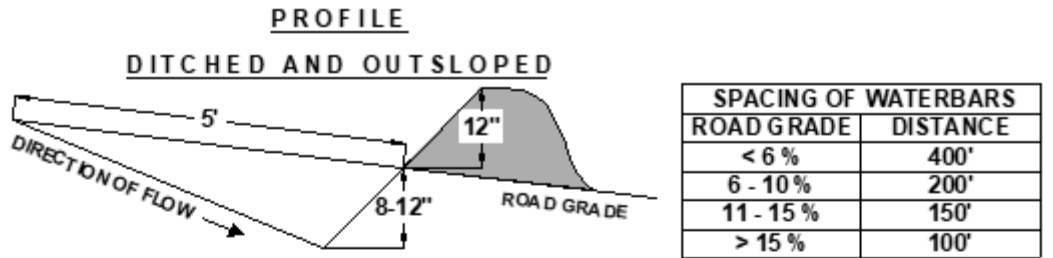


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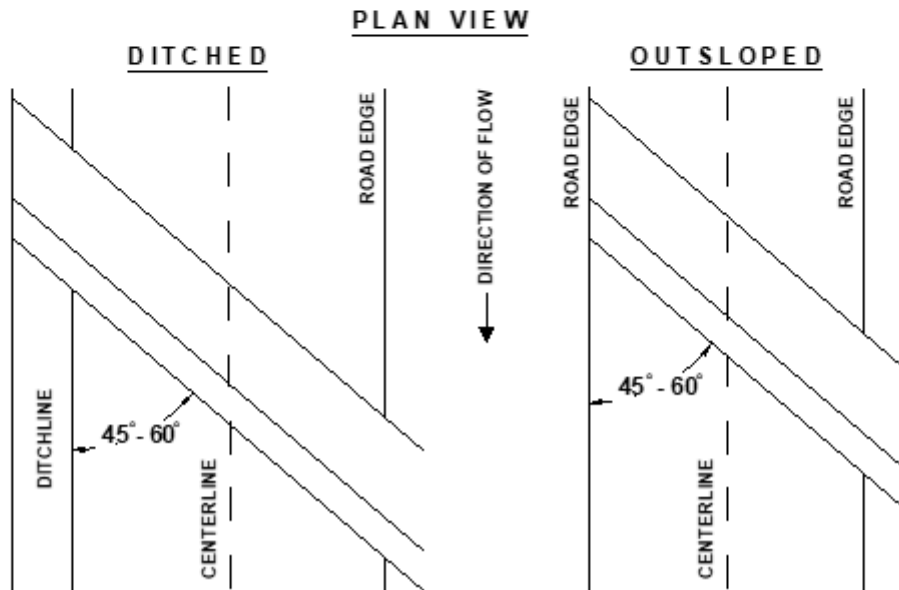
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EXHIBIT H

WATERBAR SPECIFICATIONS



CONSTRUCT DITCHOUT THRU ANY EXISTING BERM.  
 CROSS DRAINAGE GRADIENT MINIMUM 3%.





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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 Road Improvement waste materials.

Seeding Seasons. Seeding shall be performed only from March 1 through June 15 and August 15 through October 31. 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

Dry Method. 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%

Fertilizer: 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 1½ to 2½ inches. This rate requires between 2 and 3 tons of dry mulch per acre.