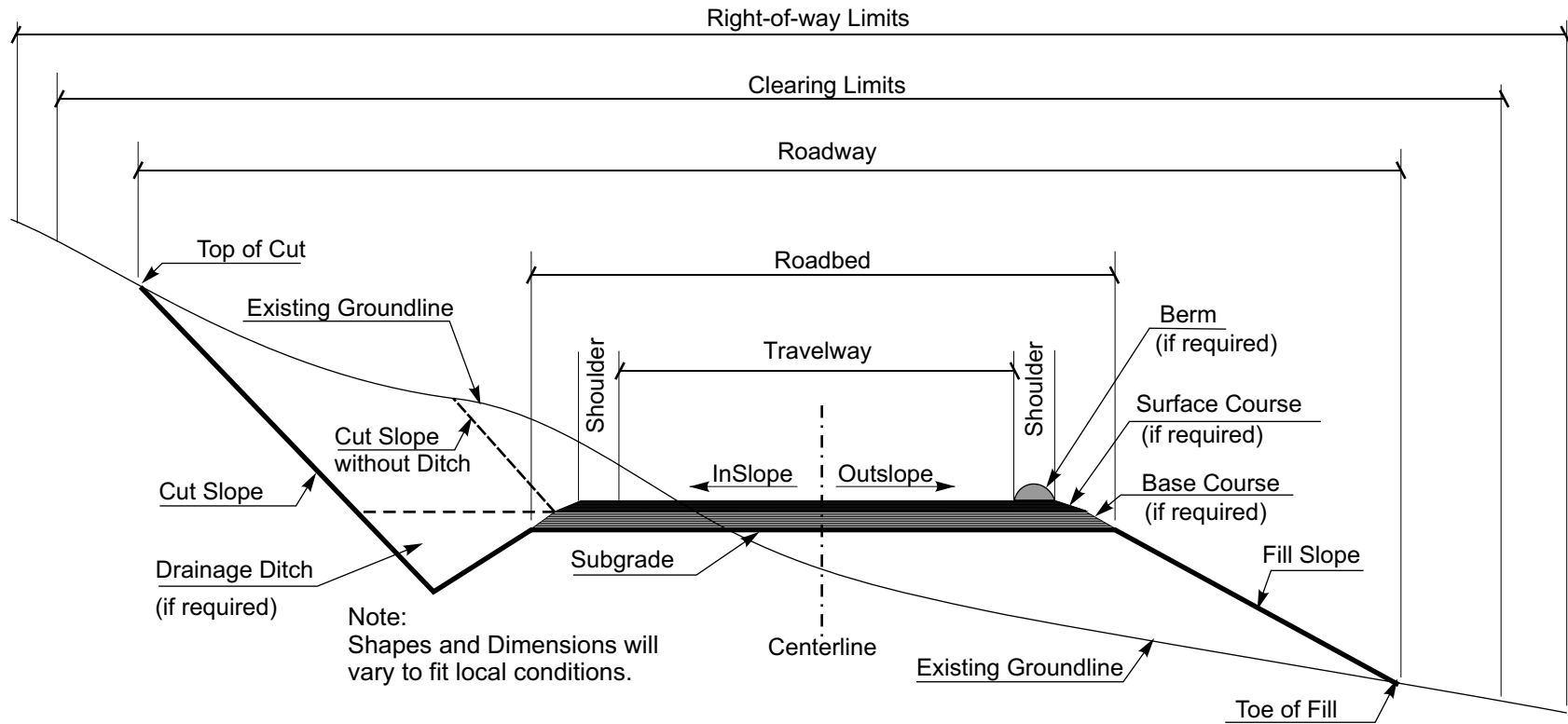




TYPICAL ROAD X-SECTION



Note:
Shapes and Dimensions will vary to fit local conditions.

Not to Scale

DESIGN	ENGINEERING
DESIGN <u>RRV</u>	ENGR _____
DRAWN <u>RRV</u>	CHKD _____
CHKD _____	SUB _____
SUB _____	SUB _____
REC _____	
REC _____	
APPR _____	
DATE <u>5/15/2003</u>	

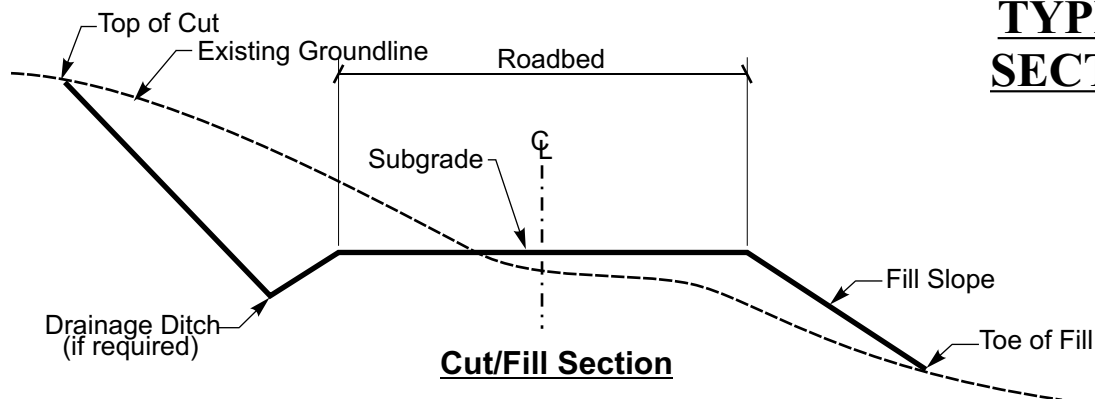
UNITED STATES DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TWO PARK PLACE, VANCOUVER WASHINGTON

TYPICAL ROAD X-SECTION

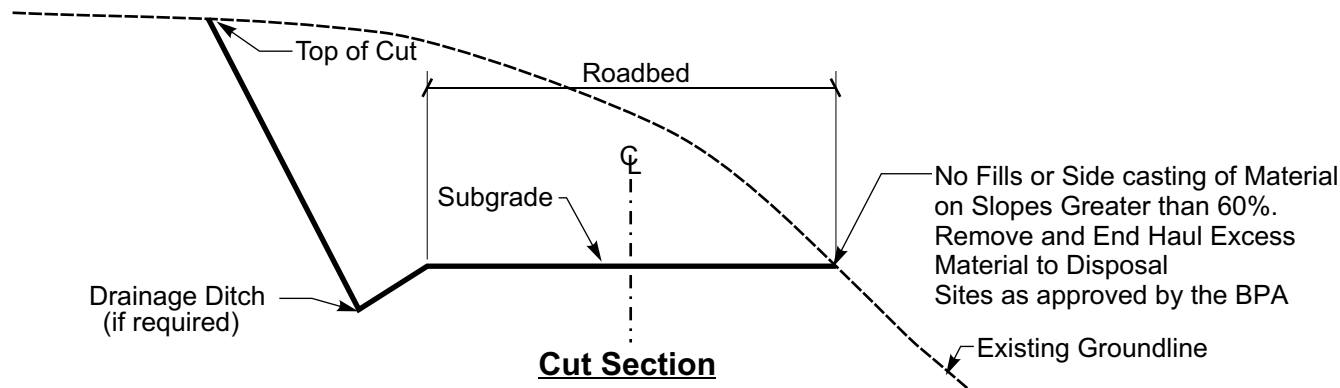
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<u>26867101</u>				



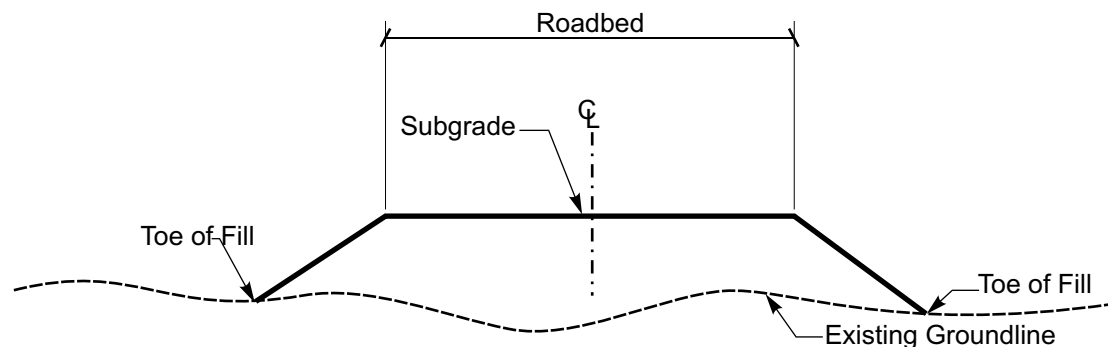
TYPICAL ROAD SECTION TYPES



Cut/Fill Section



Cut Section



Fill Section

Not to Scale

UNITED STATES DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
 TWO PARK PLACE, VANCOUVER WASHINGTON

TYPICAL ROAD SECTION TYPES

DESIGN	ENGINEERING
DESIGN <u>RRV</u>	ENGR _____
DRAWN <u>RRV</u>	SUB _____
CHKD _____	CHKD _____
SUB _____	SUB _____
SUB _____	SUB _____
REC _____	
REC _____	
APPR _____	
DATE <u>5/15/2003</u>	

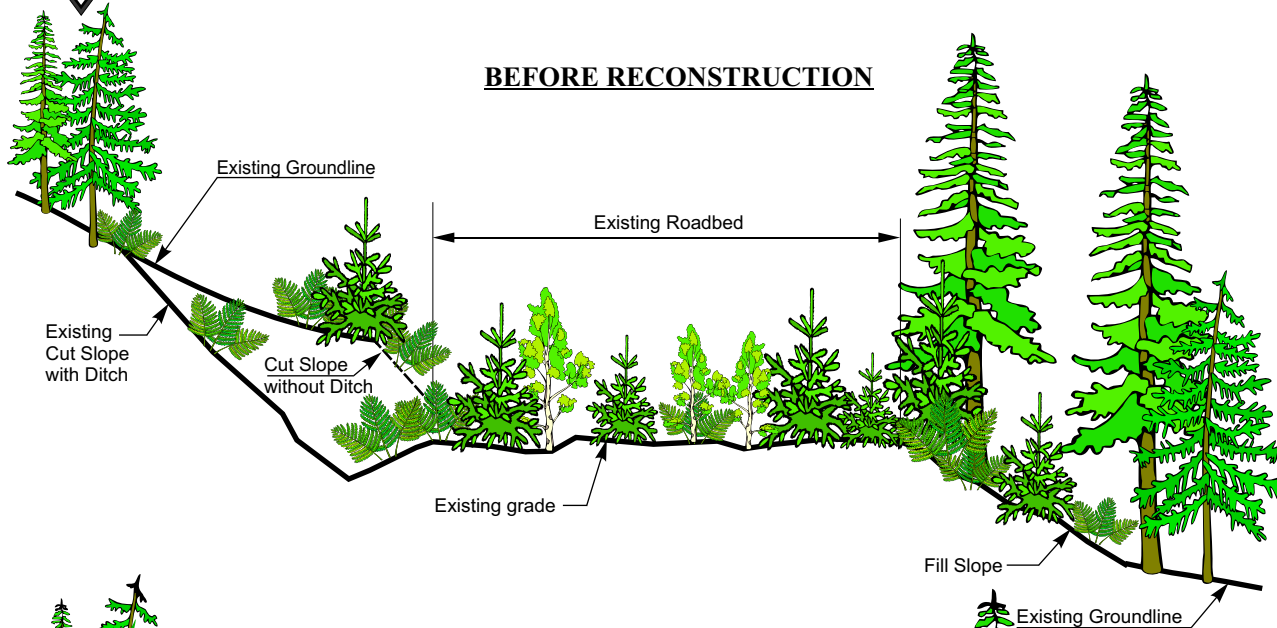
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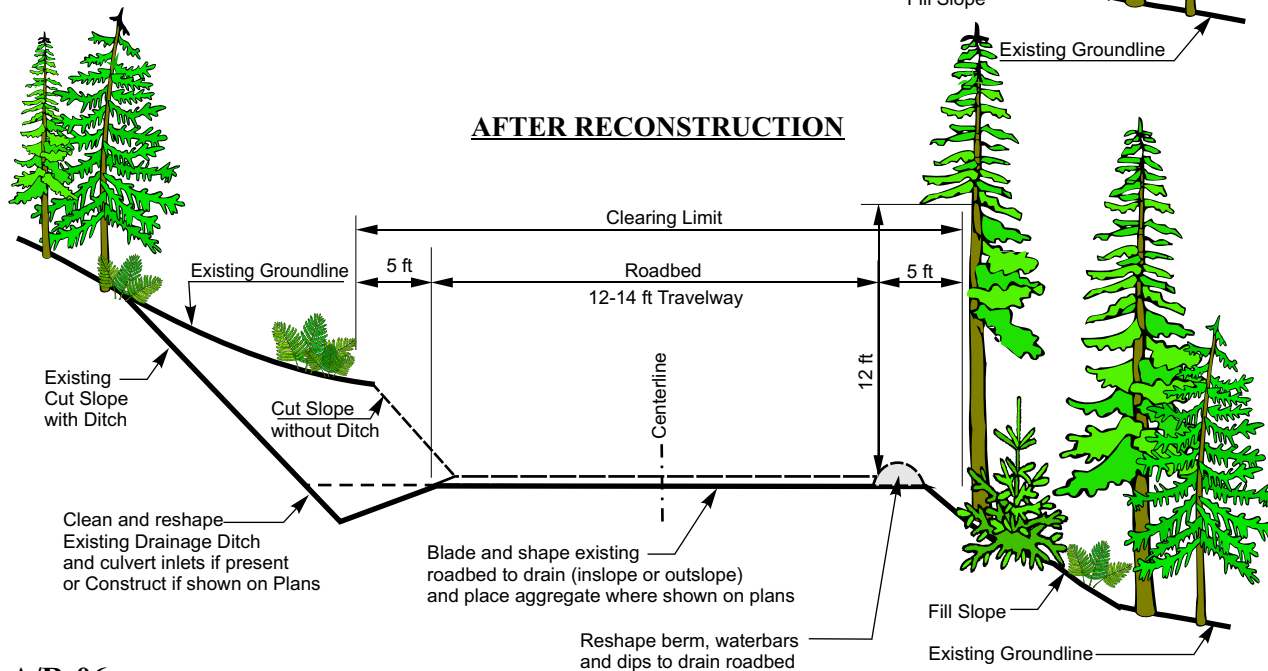
TYPICAL ROAD CLEARING AND RECONSTRUCTION DETAIL



BEFORE RECONSTRUCTION



AFTER RECONSTRUCTION



Notes:

1. Remove plants and trees within clearing limits shown.
2. Blade and Shape existing Roadbed.
3. Reshape existing Waterbars, Dips, Berms or other existing drainage structures to drain roadbed.
4. Clean and Reshape roadway ditches and culvert inlets and outlets.
5. Remove berms from fill shoulders to allow water to drain where needed.
6. Install additional Waterbars, Dips or other drainage structures as called for on plans
7. Place aggregate rock in areas as called for on plans.
8. Vary Shapes and Dimensions to fit local conditions. (See drawings or notes for each project).

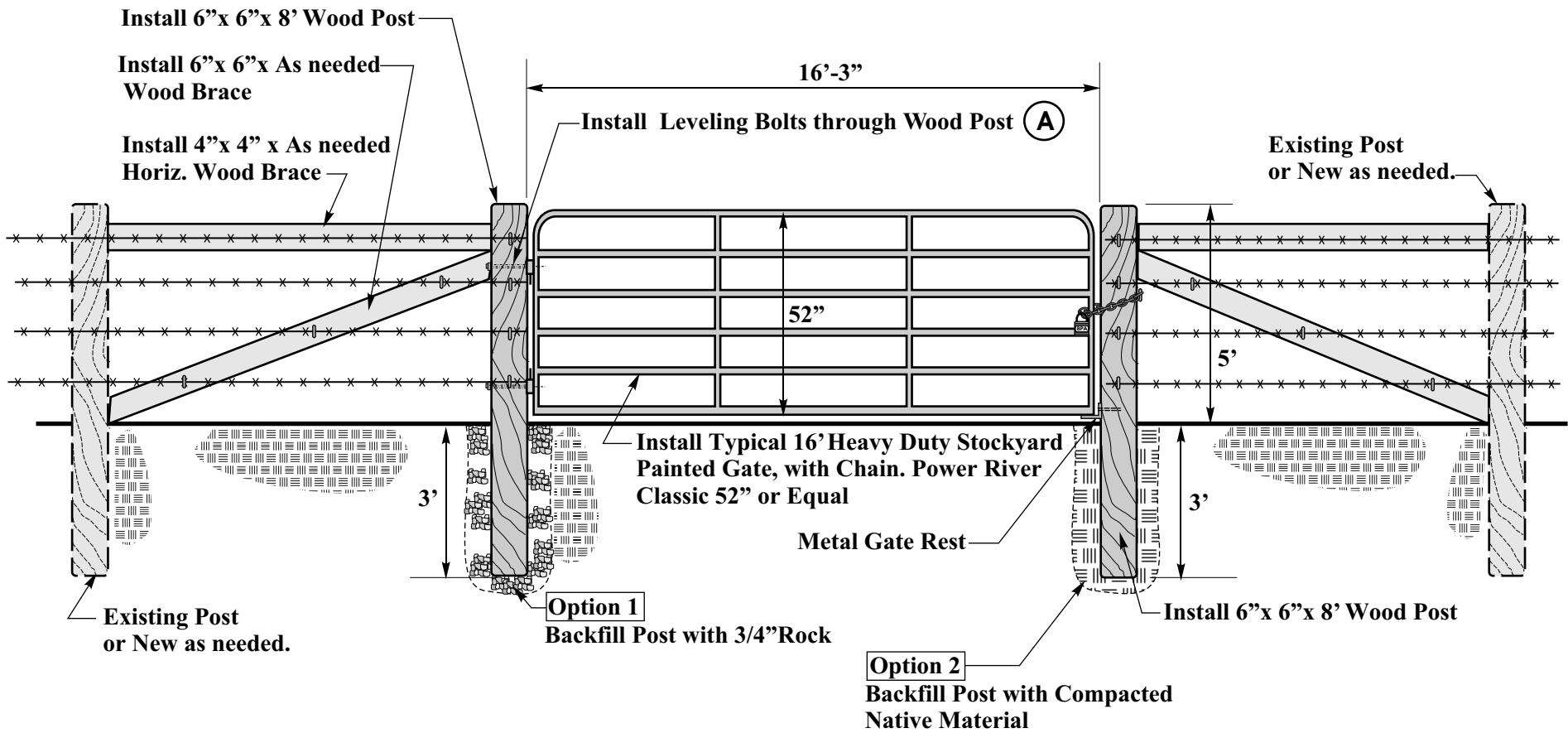
Not to Scale

DESIGN	ENGINEERING	UNITED STATES DEPARTMENT OF ENERGY				
DESIGN RRV	ENGR	BONNEVILLE POWER ADMINISTRATION				
DRAWN RRV	CHKD	HEADQUARTERS, PORTLAND, OREGON				
SUB	SUB	<h3>Typical Road Clearing & Reconstruction Detail</h3>				
SUB	SUB					
REC						
APPR						
DATE	5/15/2003	SERIAL	SOURCE	SIZE	SHEET	REV. NO.
		268689101				



TYPICAL STOCKYARD FENCE GATE DETAIL

Simple Chain Lock



(A) Weld 1/4" fillet weld one half way around end of threaded hinge bolts for anti-theft measures. If gate has "L" type hinge bolts turn "L" part on top hinge bolt down and "L" part on bottom hinge bolt up so gate cannot be removed from post, or weld hinge assembly so it cannot be removed from gate post or gate. Do not weld hinge adjustment nuts.

Not to Scale

DESIGN	ENGINEERING	UNITED STATES DEPARTMENT OF ENERGY				
DESIGN	ENGINEERING	BONNEVILLE POWER ADMINISTRATION				
DRAWN: RRV	ENGR	HEADQUARTERS, PORTLAND, OREGON				
CHKD	CHKD	Typical Stockyard Fence Gate Detail				
SUB	SUB					
SUB	SUB					
REC		SERIAL	SOURCE	SIZE	SHEET	REV. NO.
REC						
APPR						
DATE	6/24/2003					