



382F – Fence (wood panel)

Conservation Practice Job Sheet

382F OR-JS
Natural Resources Conservation Service, Oregon
September 2003

Client: _____



NRCS Photo

Definition

A constructed barrier to animals or people.

Purposes

This practice is applied to facilitate the application of conservation practices by providing a means to control movement of animals and people

Where Used

This practice may be applied on any area where management of animal or people movement is needed. Fences are not needed where natural barriers will serve the purpose

Conservation Management System

A fence is a facilitating practice as part of a conservation management system on any land use. The practice is generally used to assist in the improvement or maintenance of ecological conditions to enable prescribed grazing or other applied management to accomplish overall objectives.

Plans and Specifications

The wood panel fence specification is used for corrals, livestock handling facilities, and other uses where a simple wooden fence is needed.

Plans and specifications are to be prepared for specific sites based on this standard. Fence type, length in feet, and proposed location are provided to the client. Additional standard drawings may be attached.

Fence plans and designs in Range Technical Note #8, Pasture and Range Fences, Range Technical Note #20, Fence Designs, or "Fences", USDI, BLM and USDA, FS, 1988 will meet design standards.

Plans and specifications for installing fences shall be in keeping with this standard and shall describe the requirements for applying the practice to achieve all of its intended purposes.

Operation and Maintenance

Operation: Fences should meet the objectives of the conservation management system in providing an effective barrier.

Maintenance: Regular inspection of fences should be part of an ongoing maintenance program. Inspection of fences after storm events is necessary to insure the continued proper function of the fence. Maintenance and repairs will be performed in a timely manner as needed.

Retain and properly discard all broken fencing material and hardware. All necessary precautions should be taken to ensure the safety of construction and maintenance crews

382F OR-Specification

Natural Resources Conservation Service, Oregon

September 2003

FENCE (wood panel) SPECIFICATION SHEET

Client		Date	
Farm/Tract		Field(s)	
Location		Length(s)	
Planner		County/SWCD	

Design Approval:

Practice code No.	Practice	Lead Discipline	Controlling factor	Units	Job class				
					All	All	All	All	All
382	Fence	BCSD Graz Land Spec	Length	feet	All	All	All	All	All
			Animal Units	AUE	25	100	250	350	All
This practice is classified as Job Class (check one):									

Design Approved by: /s/ _____ Date: _____

Job title: _____

Client's Acknowledgement Statement:

The Client acknowledges that:

- a. They have received a copy of the specification and understand the contents and requirements.
- b. It shall be the responsibility of the client to obtain all necessary permits and/or rights, and to comply with all ordinances and laws pertaining to the application of this practice.

Accepted by: /s/ _____ Date: _____

Certification:

I have completed a review of the information provided by the client and certify this practice has been applied.

Certification by: /s/ _____ Date: _____

Job title: _____

Refer to the Following Conservation Practice Specifications [X]			
Use Exclusion 472		Prescribed Grazing 528A	
Range Planting 550		Critical Area Planting 342	
Pipeline 516		Watering Facility 614	
Spring Development 574		Wetland Wildlife Habitat Management 644	
Upland Wildlife Habitat Management 645		Other:	

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FENCE (wood panel) SPECIFICATION SHEET

1. Management Objectives:

Additional Narrative:

2. Type of Fence (check all that apply):

Lumber Pole 3-Rail 4-Rail 5-Rail Corral or Barn Lot

3. Additional Specifications:

Narrative:

See attached designs, drawings, and/or maps.

4. CONSTRUCTION SPECIFICATIONS

GENERAL

Installation shall be in accordance with an approved plan. Details of construction shown on the drawings but not include herein are considered as part of these specifications. Construction activities shall be in accordance with applicable OSHA regulations.

Prior to construction the fence lines shall be cleared of any possible obstruction that would hinder the fence placement and operation.

The soil surface along the fence line shall be relatively smooth such that placement of the bottom fencing member does not exceed the maximum fence member to soil surface spacing specified.

The fence materials shall have an expected life of 15 years with routine maintenance. All wood materials having contact with the soil shall be treated with an EPA-registered wood preservative. Wood posts shall be treated from the butt end of the post to at least one foot above the soil surface.

MATERIALS

Line Posts: All wood line posts shall have a minimum top diameter of 6 inches. All metal line posts shall have a minimum outside diameter (O D) of 3 inches. All posts shall be a minimum of 3 feet longer than designed fence height. Metal posts shall be set a minimum of 3 feet into an 8-inch diameter minimum concrete fill. Wood posts shall be set to a minimum depth of 3 feet. The maximum post spacing is 8 feet for 6-inch diameter wood posts and 10 feet for 8-inch diameter posts. Longer spacing for posts shall be per design specific details noted on drawings for post size and embedment depth requirements.

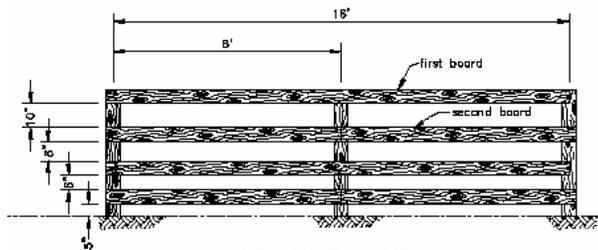
Gate and Corner Posts: Wood posts shall have a minimum top diameter of 8 inches. Metal posts shall have a minimum outside diameter (O D) of 4 inches. All posts shall be a minimum of 3.5 feet longer than designed fence height. Metal posts shall be set a minimum of 3.5 feet into a 12-inch diameter minimum concrete fill. Wood posts shall be set to a minimum depth of 3.5 feet.

FENCE (wood panel) SPECIFICATION SHEET

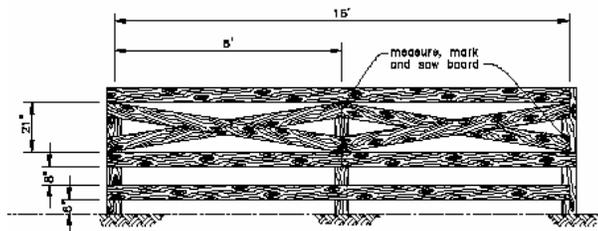
Wood Panels: Rails may be either lumber or poles. Lumber shall be 2" X 6" (nominal) minimum material. Lumber used in corrals or barn lots shall be 2" X 8" (nominal) minimum material. Poles shall have a minimum diameter of 3 inches. The spacing between rails shall be at least 6 inches. All wood panel/rail fences shall have a minimum of 3 rails. The bottom rail shall be equal to or less than 16 inches above the ground surface and the top rail shall be at least 42 inches above the ground surface.

Fasteners: Fasten rails to posts with ½ inch bolts, 3/8 inch U-bolts, or ring-shank nails (at least 30 common on rough cut lumber and 60 common on poles). When using U-bolts at a fence splice a strap or plate shall be used to hold the splice together. On metal posts a metal plate for attaching the rails shall be welded to the post.

Guardrails: On interior corral fences where livestock will be on both sides of the fence, a guardrail will be placed on the opposite side of the fence panel/rails. The guardrails may be of wood, metal pipe, or similar materials. Wood guard rails shall be of 2 X 8 inch lumber minimum; wood poles shall be at least 3 inch diameter at the small end; pipe shall be no less than 2 inch outside diameter and metal plate shall be at least 3/8 inch thickness and 6 inches wide.



STRAIGHT PANEL



DIAMOND PANEL