

**Forest Service Handbook
National Headquarters - Washington Office
Washington, DC**

Forest Service Handbook 2309.18 – Trails Management Handbook

Chapter 5 - Construction and Maintenance Exhibits

Amendment: 2309.18-1991-2

Effective date: November 08, 1991

Duration: This amendment is effective until superseded or removed.

Approved by: F. Dale Robertson, Chief

Date approved:

Responsible Staff:

Last Change: 2309.18-1991-1

Superseded Document(s): 2309.18-91-1, March 21, 1991; 1, June 1987; New, June 1985

Digest: Following is an explanation of the changes throughout the directive by section.

This amendment is a reissuance of FSH 2309.18 to conform the format and structure of the Handbook to the requirements of electronic directive issuance.

This amendment makes no substantive changes to the text. The only changes made are those necessary to meet new format requirements or to correct spelling, punctuation, unit names or coding errors.

This Handbook is now available electronically in the National Information Center in the same format as the paper copy. Henceforth, amendments to this Handbook will be issued to Forest Service units electronically on a document basis.

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This chapter is a collection of design exhibits used most often in the construction and maintenance of trails. For less commonly used design exhibits, consult Standard Specifications for Construction of Trails, EM-7720-102.

The following forms are contained in this chapter:

<u>Exhibit Number</u>	<u>Title</u>
01	Clearing Limits, form FS-7700-61
01	Clearing Limit, form FS-7700-62
01	Typical Trailway Cross Sections, form FS-7700-63
04	Trailbed and Slope Finish, form FS-7700-64
05	Talus and Rubble Rock Section, form FS-7700-65
06	Trail Passing Sections, form FS-7700-67
08	Shallow Stream Ford and Gully Crossing-Log Structures, form FS-7700-69
09	Drainage Dip, form FS-7700-66
10	Turnpike, form FS-7700-70
11	Switchback Details, form FS-7700-71
12	Check Dams, form FS-7700-75
13	Culvert, form FS-7700-76
14	Rock Culvert, form FS-7700-77
15	Waterbar, form FS-7700-78
16	Rock Spillway, form FS-7700-79
17	Rock Underdrain Installations, form FS-7700-80
18	Installation of Open Top Drain, form FS-7700-82
19	Log Stringer Bridge Typical Sections, form FS-7700-84
20	Log Stringer Bridge Construction Details, form FS-7700-85
21	Log Stringer Bridge Handrail and Running Plank, form FS-7700-86
22	Foot-Long Bridge, form FS-7700-87
23	Trail Puncheon Bridge Detail, form FS-7700-88
24	Log Retaining Wall, form FS-7700-89
25	Rock Retaining Wall, form FS-7700-90
26	Puncheon Walkway, form FS-7700-93
27	Trail Stairways, form FS-7700-91
28	Trail Stairways, form FS-7700-92

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<u>Exhibit Number</u>	<u>Title</u>
29	Log Barriers, form FS-7700-98
30	Log Barriers, form FS-7700-99
31	Rock Barrier Type G, form FS-7700-101
32	Rock Barrier Type H, form FS-7700-102
33	Treated Timber Barriers, form FS-7700-103
34	Treated Timber Barriers, form FS-7700-104
35	Fence Stiles and Ladders
36	Aggregate Surfacing, form FS-7700-94
37	Sign and Post Installation Diagram, form FS-7700-96
38	Rock Cairn Construction, form FS-7700-97

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5 - Exhibit 01 thru 5 - Exhibit 20

5 – EXHIBIT 1 THRU EXHIBIT 20 ARE IN A SEPARATE DOCUMENT