MATERIALS AND EQUIPMENT FOR STANDARD SUSPENSION BRIDGES

TABLE XII. *Lumber for suspension footbridge (cut at site).*

Mark	Article	Number of Pieces Required		Size of Piece
		Per Article	For 300-Ft. Span[1]	
T1	Tower post	10	44	2 x 10 x 10' 0"
T2	" sill	7	16	"
T3	" cross-brace	2	5	"
T4	" diagonal	8	18	"
T5	" top crosspiece	2	5	"
T6	" saddle block	2	5	"
T8	" back brace	2	2	6"-min.-dia. log
T9	" back-brace stop	4	9	1 x 10 x 10' 0"
		Per Panel		
R1	Siderail	2	66	2 x 4 x 10' 0"
R2	" splice	4	132	1 x 4 x 1' 6"
R3	Saw-tooth bracing	4	132	1 x 6 x 7' 8"
R4	Toeboard	2	66	2 x 6 x 10' 0"
R5	" splice	4	132	1 x 6 x 1' 6"
R6	Siderail post	2	66	2 x 4 x 4' 3"
R7	" knee brace	2	20	2 x 4 x 4' 8"
R8	" knee-brace filler	2	20	2 x 4 x 0' 6"
F1	Floor beam	1	25	4 x 4 x 5' 7"
F2	Stringer	2	76	4 x 4 x 10' 11⅝"
F2	Floor beam	1	10	4 x 4 x 10' 11⅝"
F3	Floor plank	18	570	2 x 6 x 5' 0"
F4	Rack stick	2	66	2"-min.-dia. stick
	Deadman	—	2	12"-min.-dia. log

Note: [1] Includes spare pieces.

TABLE XIII. *Cable and hardware for 2,000-pound bridge.*

Mark	Article	Unit	No. Req'd	Size
T7	Tower saddle-block cover plate	ea	4	Bent plate 7x¼x0'9½"
C1	Main cable	500'0"	2	¾"-dia., 6x19, W. R. C.
C2	Main-cable clip	ea	30	For ¾"-dia. rope
C3	Clip-type cable band	ea	80	For ¾"-dia. main cable and ½"-dia. suspender
C4	Suspender wire-rope clip	ea	300	For ½"-dia. rope
	Suspender rope	750'0"	1	½"-dia., 6x19, W. R. C.
	Tower guy	600'0"	1	½"-dia., 6x19, W. R. C.
T10	Tower guy holdfast	ea	12	Rod 1"-dia. x 3'0"
	Wire sway bracing	ft	2000	#9 gage galv. steel wire
	Spikes for tower saddle blocks	lbs	64	60d. galv. steel
	Nails for floor and siderail	lbs	300	20d. galv. steel
T11	Dowel	ea	8	Rod ¾"-dia. x 12"

TABLE XIV. *Cable and hardware for light-equipment suspension bridge.*

Mark	Article	Unit	No. Req'd.	Size
T7	Tower-saddle block cover plate	ea.	4	Bent plate 8x¼x0′ 9½″
C1	Main cable	500′-0″	2	1″-dia., 6x19, W. R. C.
C2	Main-cable clip	ea.	30	1″ dia. rope
C3	Clip-type cable band	ea.	80	1″-dia. main cable, ½″-dia. suspender
C4	Wire-rope clip	ea.	350	½″-dia. rope
	Suspender rope	750′-0″	1	½″-dia., 6x19, W. R. C.
	Tower guy	600′-0″	1	½″-dia., 6x19, W. R. C.
T10	Tower guy holdfast	ea.	12	Bar 1″-dia.x3′0″
	Spikes for tower saddle blocks	lbs.	64	60d. galv. steel
	Nails	lbs.	300	20d. galv. steel
T11	Dowel	ea.	20	Bar ¾″-dia.x1′0″

TABLE XV. *Lumber for light-equipment suspension bridge cut at site.*

Mark	Article	Number of Pieces Required		Size of Piece
		Per Article	For 300′ Span [1]	
T1	Tower post	15	66	2 x 10 x 10′ 0″
T2	" sill	8	18	2 x 10 x 10′ 0″
T3	" cross brace	4	9	2 x 10 x 10′ 0″
T4	" diagonals	2	18	2 x 10 x 10′ 0″
T5	" top cross piece	4	9	2 x 10 x 10′ 0″
T6	" saddle block	—	4	3 x 10 x 0′ 8″
T8	" back brace	29	40	2 x 10 x 10′ 0″
T9	" back-brace stop	4	9	2 x 10 x 1′ 0″
		Per Panel		
R1	Siderail	4	132	2 x 4 x 10′ 0″
R2	" post	2	66	2 x 6 x 3′ 10″
R3	Saw-tooth bracing	4	132	2 x 4 x 5′ 8″
R4	Knee bracing	2	66	2 x 4 x 4′ 1″
R6	Toeboard	2	66	2 x 6 x 10′ 0″
R7	" splice	2	66	1 x 6 x 1′ 6″
F1	Floor beam	1	33	6 x 6 x 10′ 0″
F2	Stringer	2	66	4 x 6 x 11′ 0″
F3	" cleat	4	132	2 x 4 x 0′ 3¼″
F4	Floor plank	18	57	2 x 6 x 5′ 10″
F5	Curb	2	66	4 x 4 x 10′ 0″
F6	" splice	4	132	1 x 4 x 1′ 6″
F7	Horizontal sway brace	1	33	2 x 6 x 11′ 6″
	Deadman	—	2	12″-min.-dia. log

Note [1] Includes spare pieces.

TABLE XVI. *Erection equipment for standard suspension bridges.*[1]

Article	Unit	No. Req'd.
Adz, carpenter's, full-headed, 4½-in.-cut	Ea.	4
Air compressor, portable, and pneumatic tools [2]	Ea.	1 or 2
Ax, chopping, double-bit, 3½-lb.	Ea.	6
Bar, crow, pinchpoint, 60-in.	Ea.	4
Bar, wrecking, claw and pinchpoint, gooseneck, 30-in.	Ea.	2
Bit, auger, hand, ¾-in.	Ea.	1
Bit, auger, hand, ⅞-in.	Ea.	1
Blade, hacksaw, hand, 12-in., 14-teeth	Ea.	12
Block, ordinary, steel-shell, for manila rope, double with becket, ¾- x 6-in.	Ea.	1
Block, ordinary, steel-shell, for manila rope, single with becket, ¾- x 6-in.	Ea.	1
Block, snatch, steel-shell, for ¾-in. manila rope	Ea.	4
Block, snatch, steel-shell, steel-sheave, for ¾-in. wire rope	Ea.	6
Brace, ratchet	Ea.	1
Cap, blasting, commercial, electric, No. 8, instantaneous	Ea.	25
Carrier, timber	Ea.	4
Chain, coils, steel, proof, ¼-in.	Ft.	100
Cutter, cable, hammer-type, 1-in.-capacity	Ea.	4
Dynamite, ammonia-gelatin, 40-percent	Lb.	25
File, American standard, single, flat-bastard, 8-in.	Ea.	12
Frame, hacksaw, adjustable, 8- to 12-in., pistol-grip	Ea.	1
Grip, wire, come-along-type, ¾- to ¼-in. wire capacity	Ea.	4
Hammer, carpenter, nail, curved-claw, 1-lb.	Ea.	6
Hoist, chain, ratchet, 1½ to 3-ton-capacity	Ea.	4
Level and plumb, carpenter's wood, nonadjustable, 24-in.	Ea.	2
Machine, blasting, 10-cap-capacity	Ea.	1
Mattock, pick, 6-lb.	Ea.	6
Nippers, end-cutting, adjustable jaw, 14-in.	Pr.	4
Peavy	Ea.	6
Pick, railroad, 7-lb.	Ea.	12
Pliers, lineman's, side-cutting, 8-in.	Pr.	2
Radio set, receiver and transmitter, portable, SCR 536B	Set	2
Reel, wire, firing, 500-ft.	Ea.	1
Rope, manila, 3-strand, medium-laid, ⅝-in.	Ft.	1,000
Saw, chain, portable, gasoline, 24-in.-blade	Ea.	2
Saw, hand, crosscut, 26-in., 6 points	Ea.	4
Shovel, general-purpose, round-pointed, longhandled, No. 2	Ea.	12
Sledge, blacksmith, double-face, 8-lb.	Ea.	2

TABLE XVI. (*Continued*).

Stadia rod	Ea.	4
Steel, cold-rolled, bar, round, 2-in. (2 bars 2" x 4'0")	Lb.	86
Stone, sharpening, unmounted, artificial, combination	Ea.	4
Tape, measuring, woven metallic, U. S., 50-ft., with case	Ea.	2
Transit	Ea.	1
Winch, hand-operated, single-drum, 2-ton-capacity	Ea.	1
Wire, steel, carbon, annealed, bare, No. 16	Lb.	12
Wrench, crescent-type, single-end, 1⅛-in.	Ea.	8
Wrench, structural, offset, nominal-opening, 1⅛-in.	Ea.	6

NOTES: [1] Most of the equipment will be organic equipment issued to the engineer organization erecting the bridge.

[2] Under development. See paragraph 23.