UNITED STATES DEPARTMENT OF AGRICULTURE

FOREST SERVICE

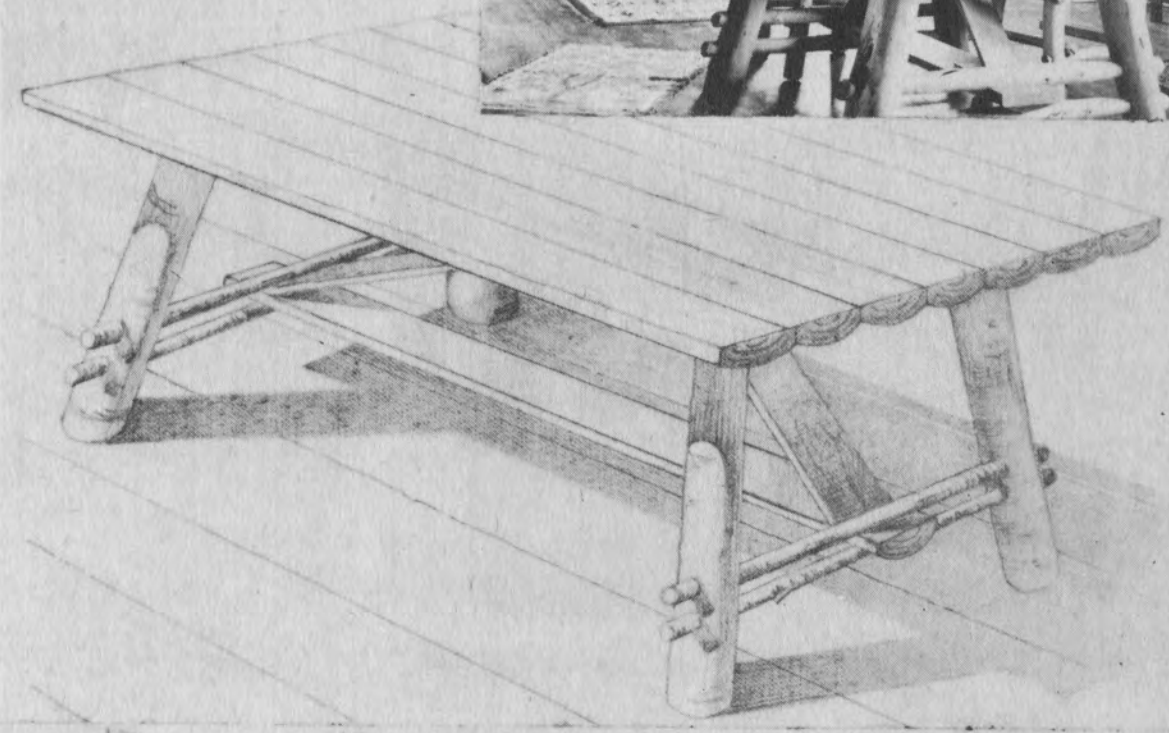
Lyle F. Watts, Chief

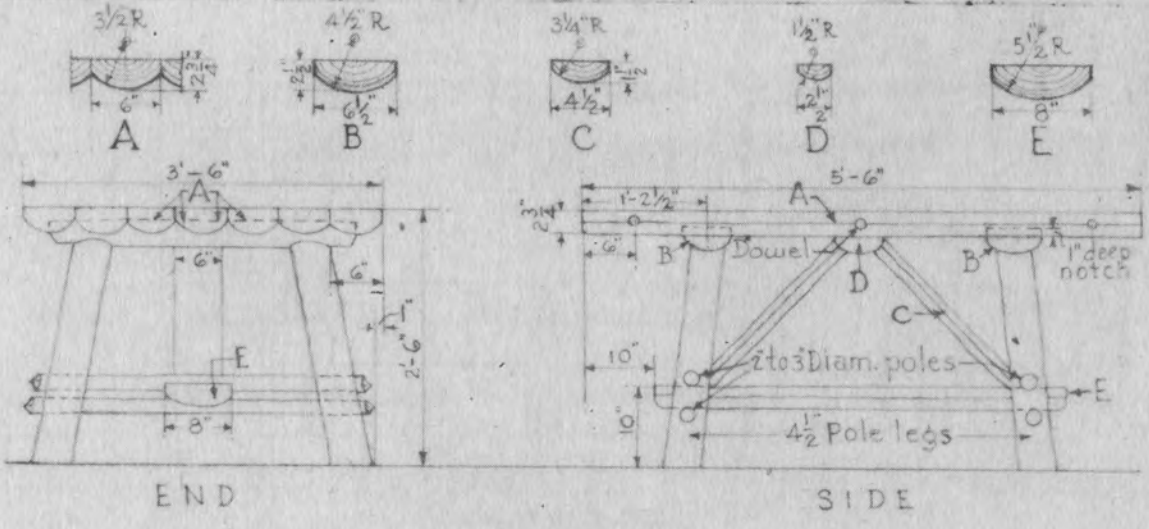
BUILDING WITH LOGS

1944

Prepared by
Clyde P. Fickes
Region One, Missoula, Montana
and
W. Ellis Groben
Chief Architect
Division of Engineering
Washington, D. C.
T. W. Norcross, Chief





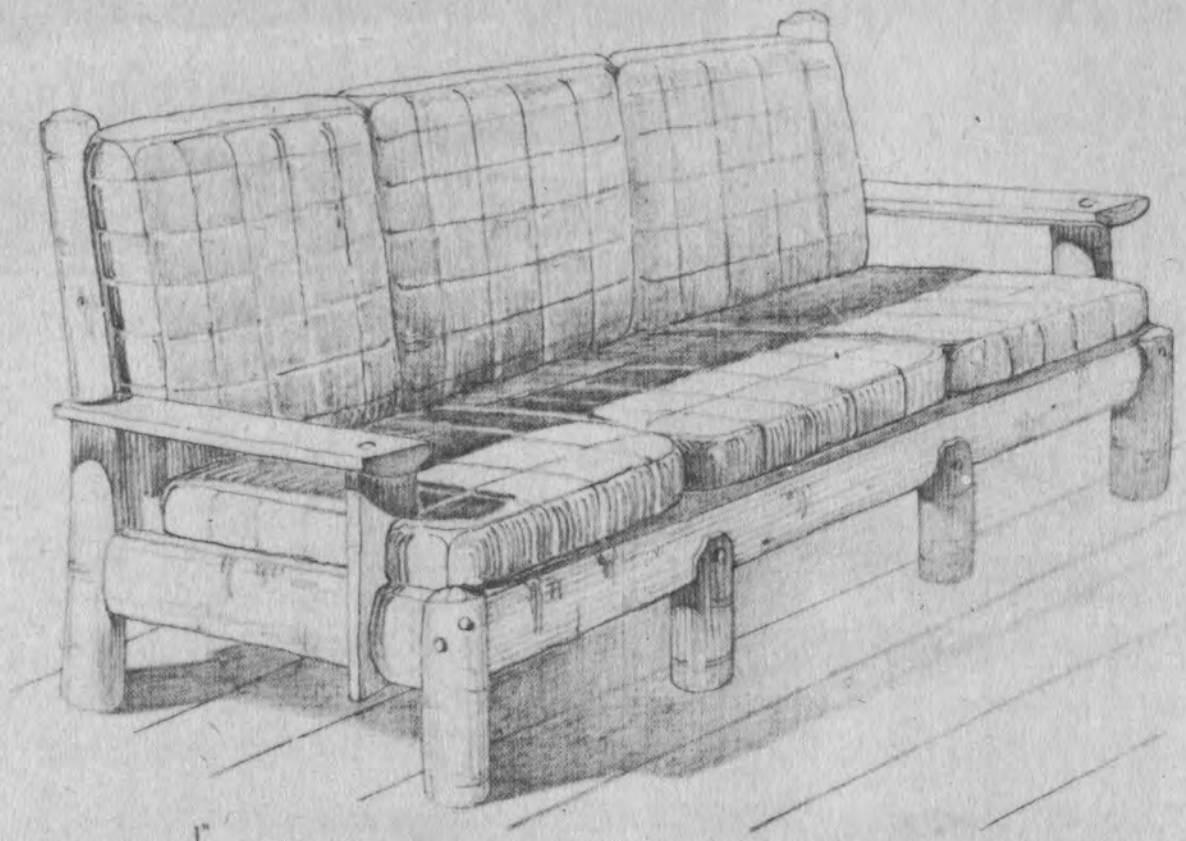


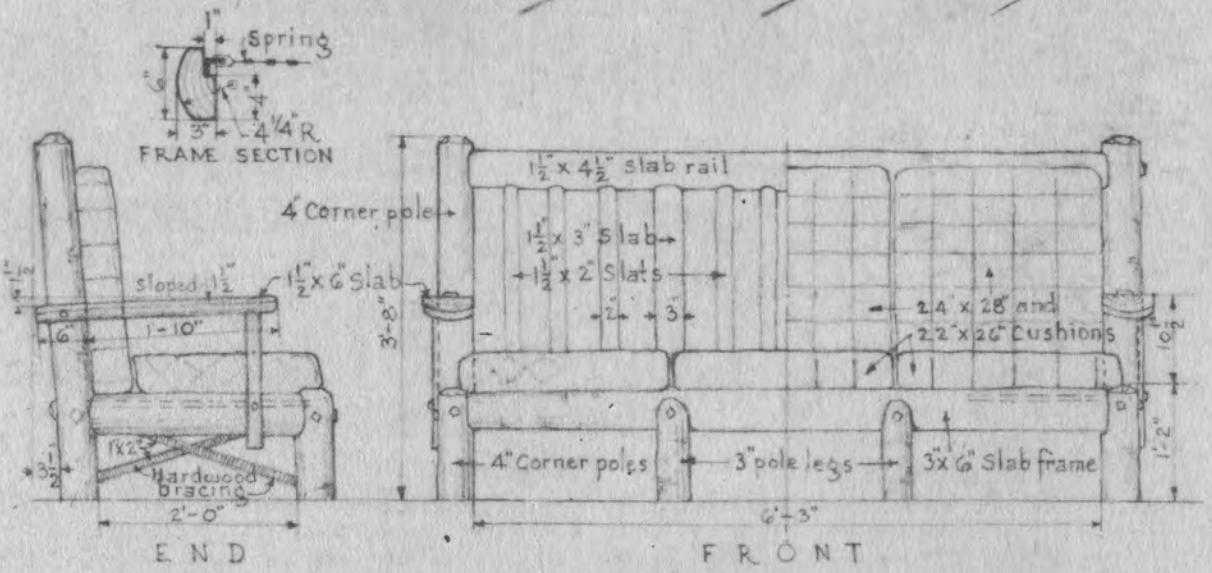
LEGEND

Use well seasoned peeled pine or birch. Make tight saddle joint between B and the legs. Cross poles to impale the legs tightly. Notch E for cross poles. Upper surface of C to be slabbed face and fitted between D and cross poles; all rigidly braced together. Top pieces of table to be doweled at places indicated with ½" x 4" wood dowels, glued and clamped to insure tight joints. Notch top pieces, A, 1" deep to receive B and D. Top outside edges of A, C, and E to be hewed. Peeled wood to be finished as follows: 2 qts. turpentine, 2 qts. raw linseed oil, 1 qt. drier to which add 1 pt. raw sienna, ½ pt burnt umber, touch of burnt sienna. Surface of table top to be given 2 coats of spar varnish. It is advisable to remove bark, which collects insects, to insure durability. REGION-1.

DINING TABLE

PLATE 1





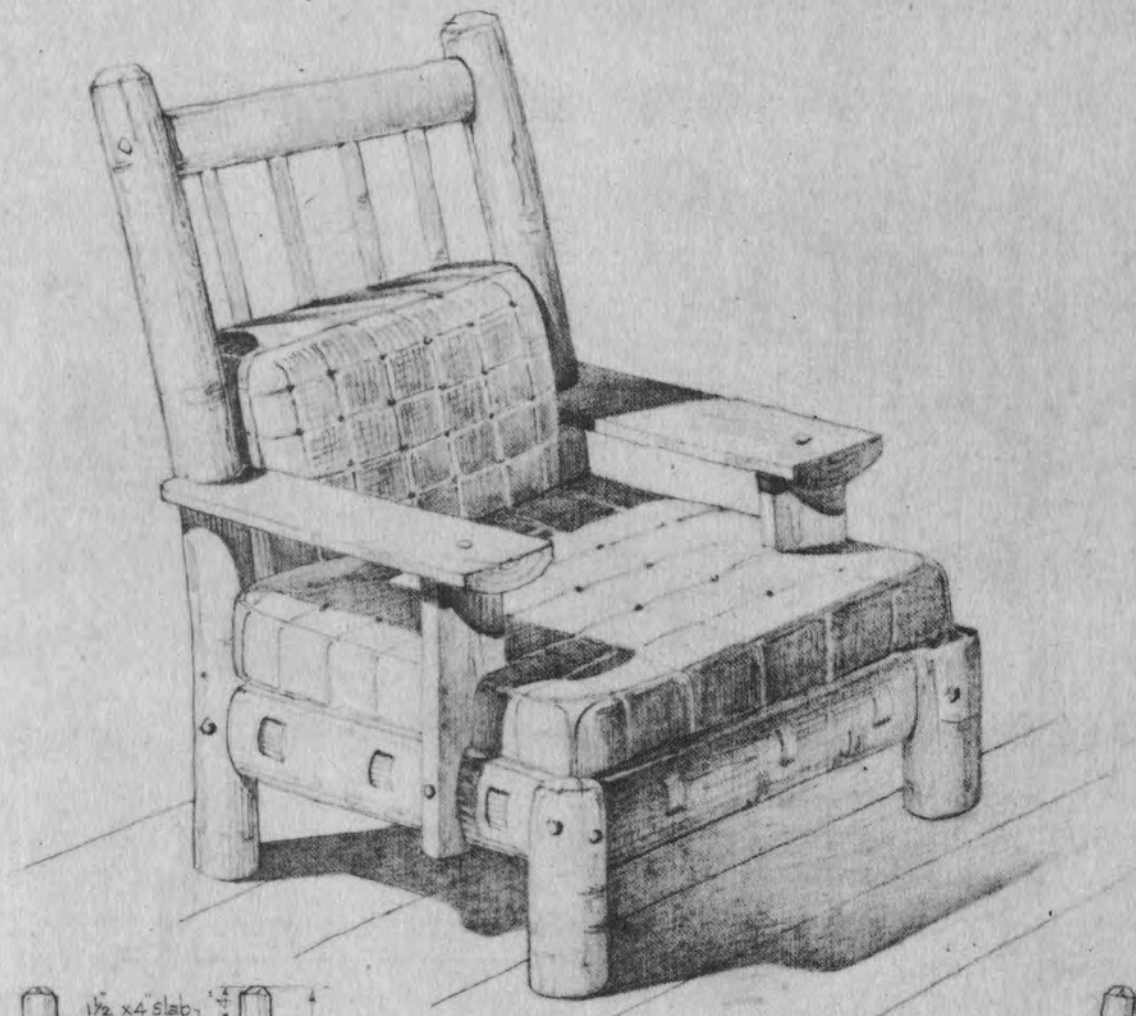
· LEGEND ·

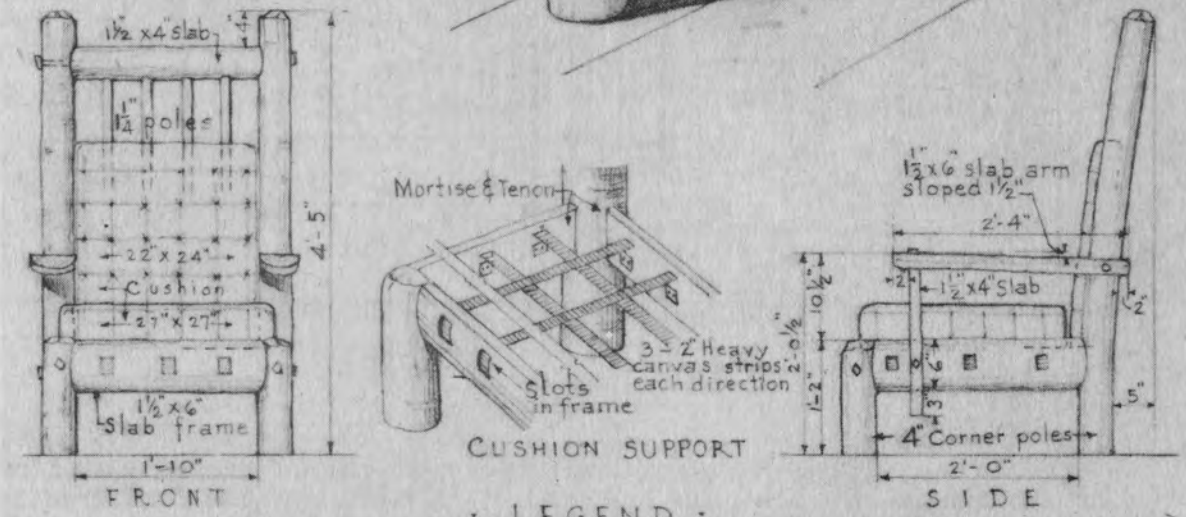
Join corner poles to slab frame and rail with mortise and tenon; then anchor the joints by means of ⅜" x 6" lag screws. Fasten the arms to the corner poles with ⅜" x 5" carriage bolts and to slab support with ⅜" x 4" lag screws, and slab support to the frame with ⅜" x 3" carriage bolts. All wood to be peeled pine, or birch, and well seasoned and finished with sandpaper. 1" x 2" hardwood cross-pieces to be securely fastened at top ends and notched into legs at bottom ends, held by 2" wood screws, driven into place at an angle. Back slats to be mortised and tenoned to rail and frame. All wood to be finished as follows: 2 qts. Turpentine, 2 qts. raw linseed oil, 1 qt. drier, to which add 1 pt. raw sienna, ½ pt. burnt umber; touch of burnt sienna. Cushions to be filler-type, without springs if so desired, and covered with home-spun fabric.

REGION-1.

· LIVING ROOM SETTEE ·

PLATE II





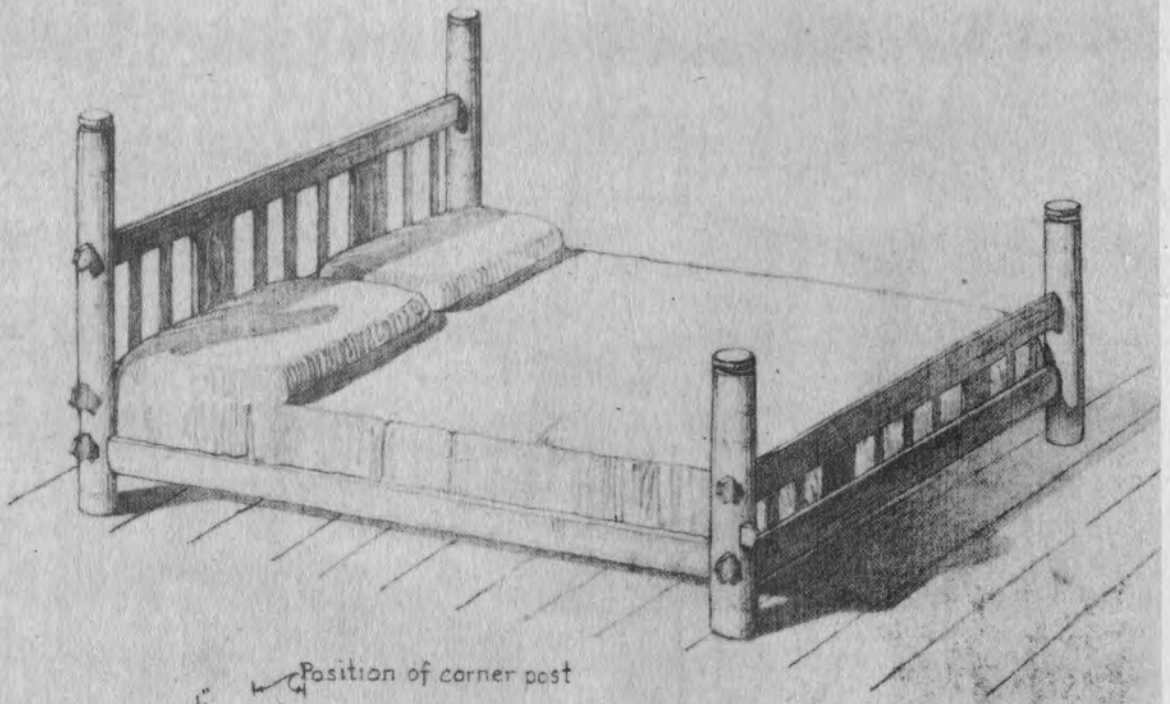
· LEGEND ·

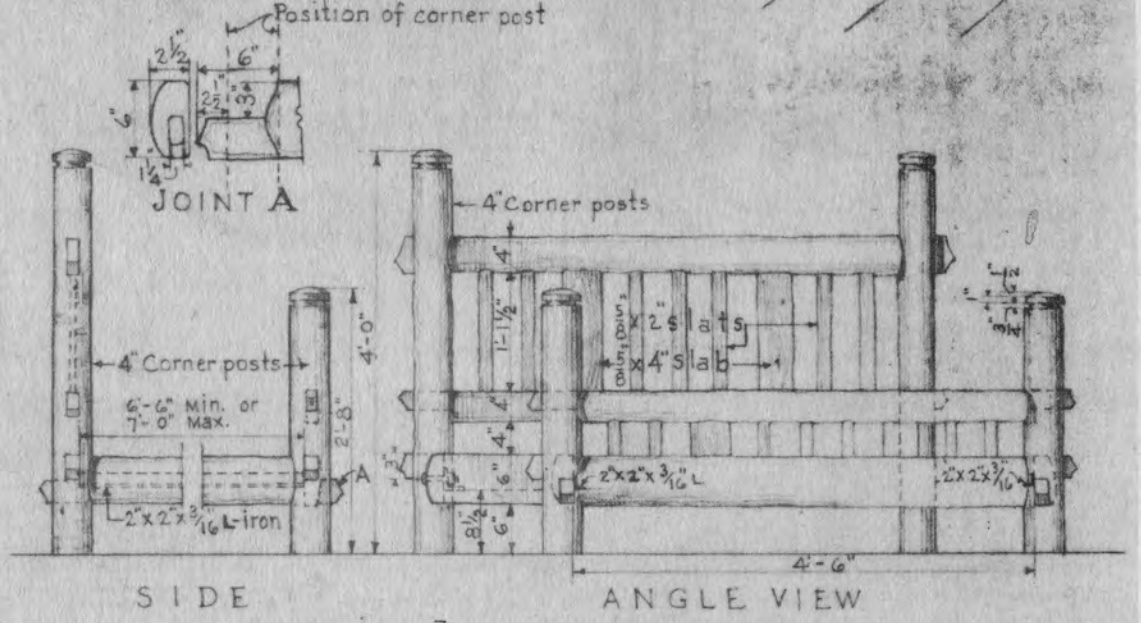
Corner poles to be mortised and tenoned to frame and rail and anchored in place with 3/8" x 6" lag screws. Arms to be fastened to corner poles by means of 3/8" x 5" carriage bolts and to slab support with 3/8" x 4" lag screws. The vertical wood slab support to be rigidly secured to frame with 3/8" x 3" carriage bolts. All wood to be lodge pole pine, Eastern pine, with all bark removed, or birch; all well seasoned. Bark collects insects, deteriorates the wood and eventually comes off leaving unsightly, imperfect, unfinishes surfaces. After carefully sandpapering the surfaces, then apply the following proportioned finish: 2 Qts. turpentine, 2 qts. raw linseed oil, 1 quart of drier, to which add 1 pt. raw sienna, ½ pt. of burnt umber, plus a touch of burnt sienna. Cushions to be filler-type, without springs if so desired, and covered with home-spun fabric. See detail of cushion support above, in which the 2" wide, heavy canvas strips are to be securely fastened with furniture tacks.

· ARM CHAIR ·

REGION - 1.

· PLATE III





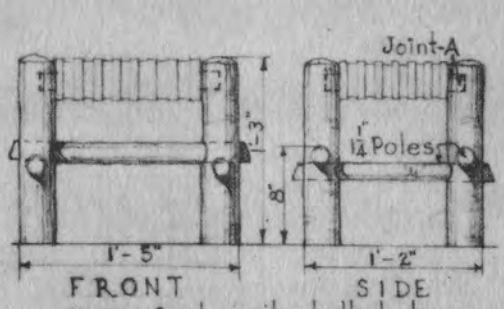
· LEGEND ·

Use lodge pole, Eastern pine, the bark peeled off, or birch; all well seasoned. The cross-pieces to impale the corner posts tightly, joint glued, and toe-nailed from below. Do not cut side or end pieces until the bed spring has been measured and then allow for slight play in both directions in setting L-irons in order to facilitate the insertion and removal of mattress. Woodwork to be finished after being thoroughly sandpapered, with the following proportioned materials: 2 qts. turpentine, 2 qts. raw linseed oil, 1 qt. liquid drier, to which add 1 pt. of raw sienna, ½ pt burnt umber, and a touch of burnt sienna. Use ¼"x 3" carriage bolts to fasten L-iron to wood frame. Note: For a single bed reduce width to suit 3'-3" or 4'-0" spring.

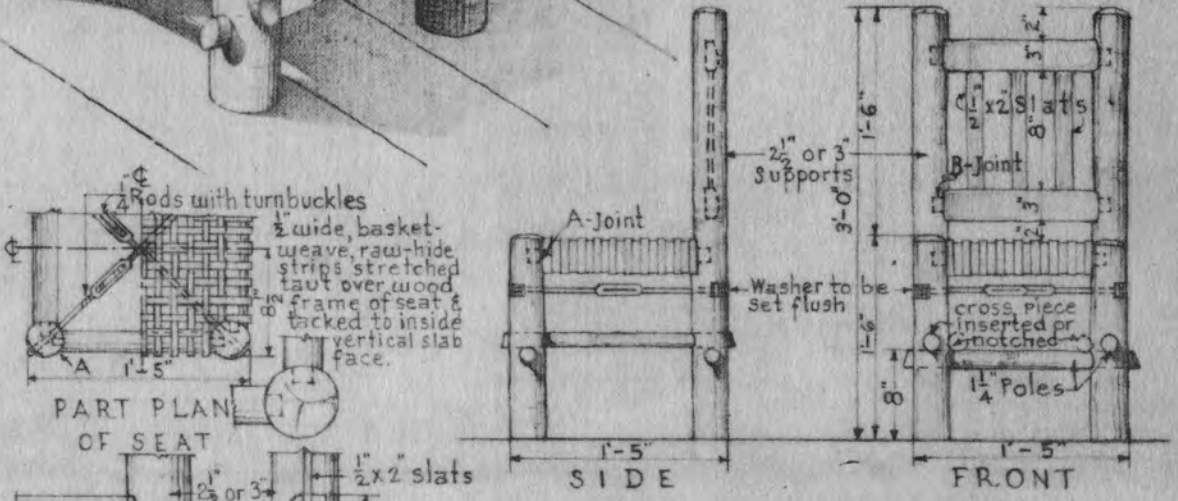
REGION—1.

· DOUBLE BED ·

PLATE IV



NOTE: Seat similar to that shown below for chair.



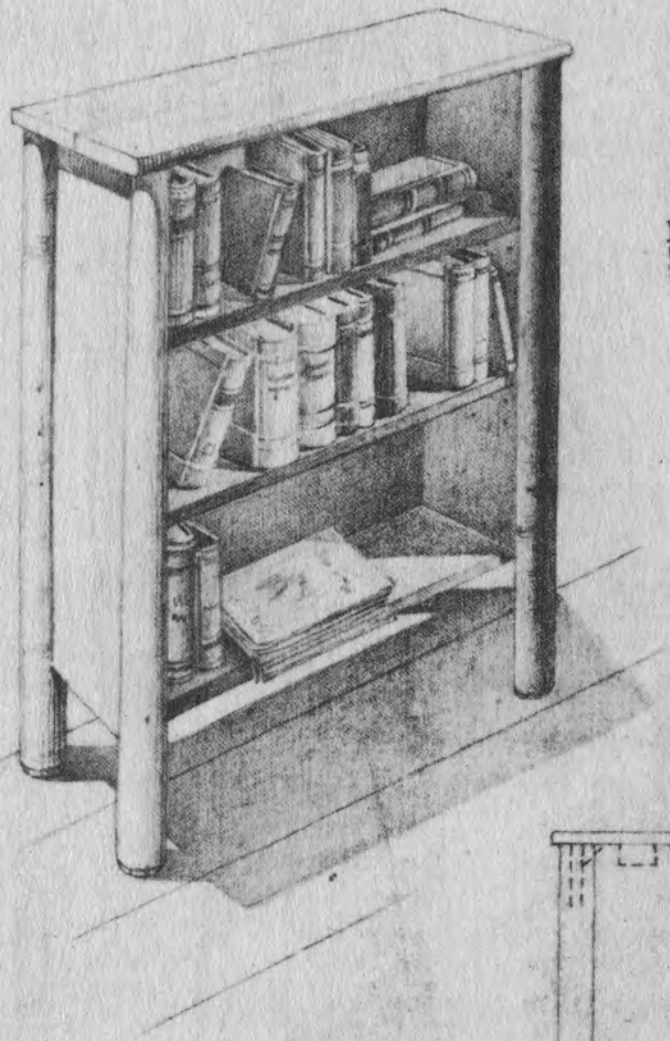
LEGEND

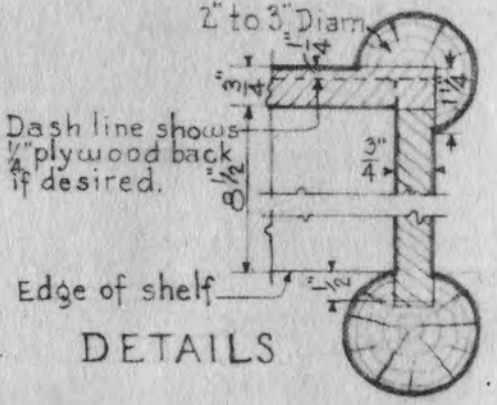
Use well seasoned peeled lodge pole pine, Eastern pine, or birch. Cross poles to impale legs rigidly. Cross pieces of chair back to have curvature to fit the back. Joints to be tight, glued, and mortised and tenoned. For finishing the following proportioned materials: 2 qts. turpentine, 2 qts. raw linseed oil, 1 qt. liquid drier, to which add 1 pt. raw sienna, ½ pt. burnt umber, and a touch of burnt sienna. Surface of rawhide seat to be given 2 coats of clear spar varnish.

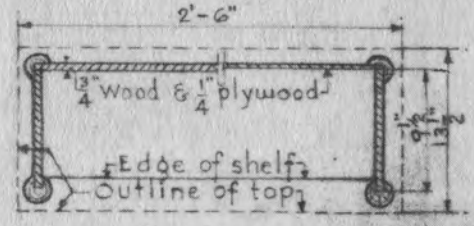
REGION-1.

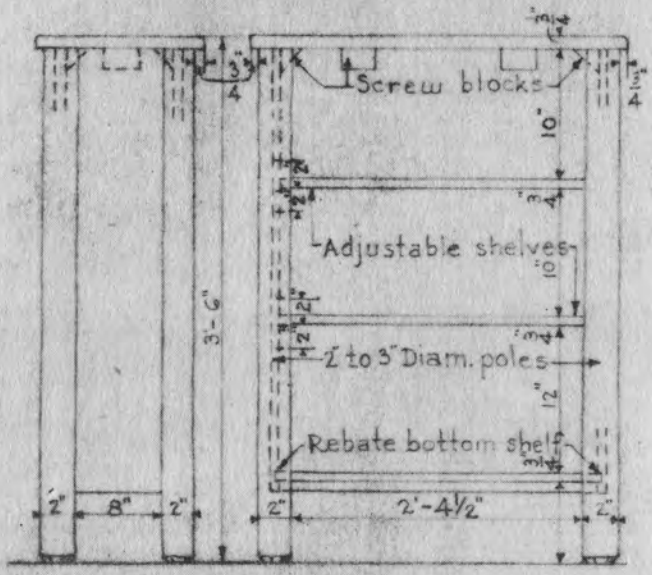
· CHAIR & STOOL ·

PLATE V







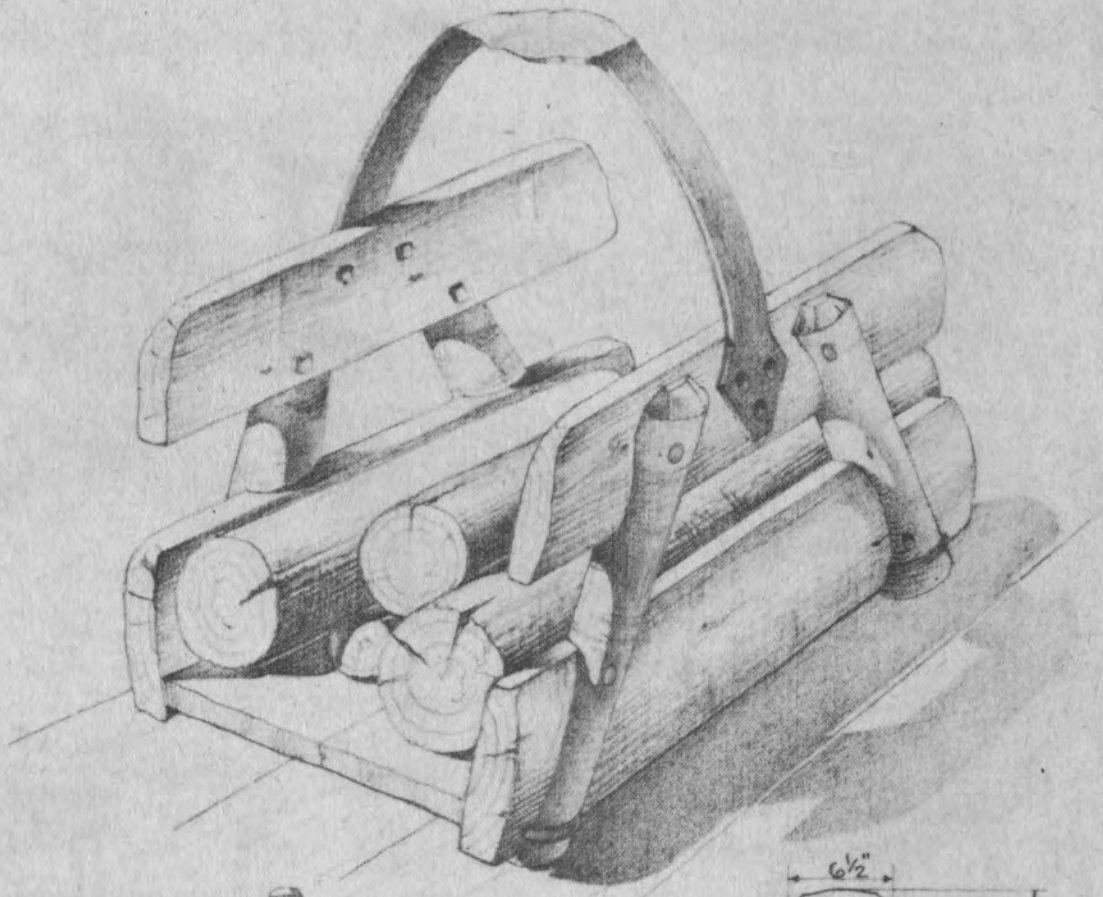


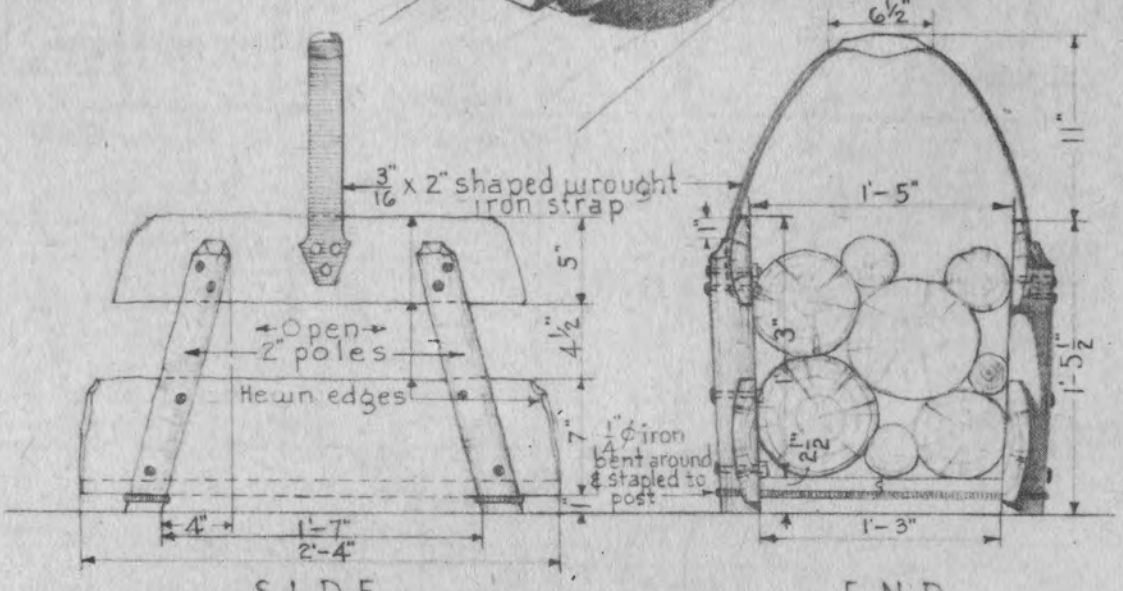
LEGEND

Material to be lodge pole pine, tamarack, Eastern pine, peeled; or birch; all well seasoned. Sides and bottom shelf to be rabbeted and thoroughly glued. The two intermediate shelves to be made adjustable by boring three holes in each side piece 2" apart, above and below position shown here for shelves, into which loose wood pins may be inserted for shelf support. Screw top in place, countersink screw heads and fill with plastic wood for concealment. Since plastic wood will not take stain, wood plugs or false dowels are better than plastic wood except where a painted finish is used. Book rack to be finished in following proportions: 4 parts turpentine, 4 parts raw linseed oil, 1 part drier, 1 part raw sienna, ½ part burnt umber, and a touch of burnt sienna.

REGION — 1

· BOOK RACK ·





SIDE END

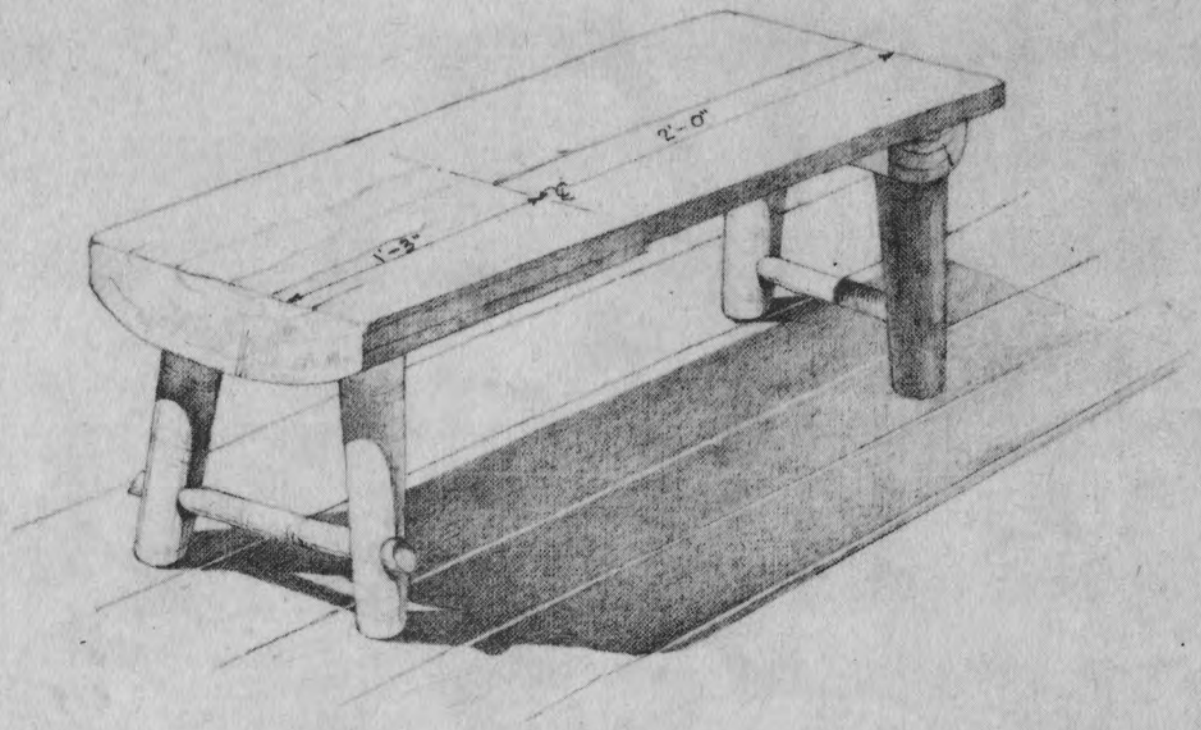
LEGEND

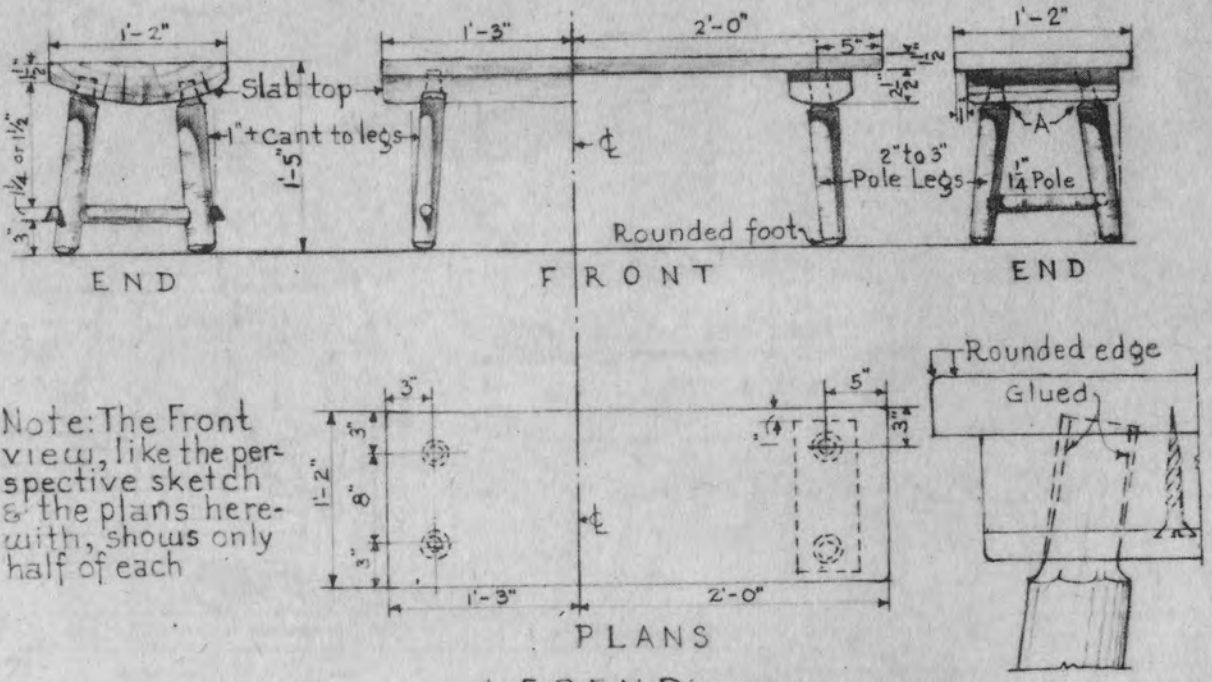
Materials to be wood and metal. Use well seasoned, peeled lodge pole pine, tamarack, Eastern pine, or birch. Make tight cradle joint between horizontal and vetical side pieces, using ¼"x 2" carriage bolts, except that ¼" x 3" lag screws are to be used for fastening the lower side pieces and bottom together. Secure the wrought iron strap handle to each side top piece with 3 - 1½" carriage bolts. Wood sides to have hewn edges of ¾" min. thickness. Finish of the following proportions to be used: 2 qts. turpentine, 2 qts. raw linseed oil, 1 qt. liquid drier to which add 1 pt. raw sienna, ½ pt. burnt umber and a touch of burnt sienna.

REGION—1

· FIREPLACE WOOD HOD ·

PLATE VII





Note: The Front view, like the perspective sketch & the plans herewith, shows only half of each

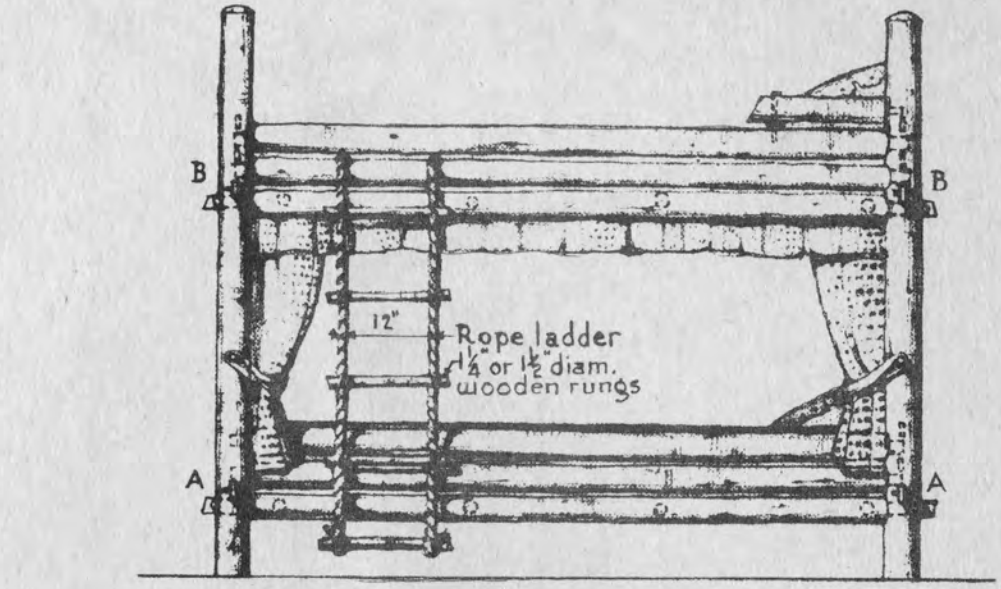
· LEGEND ·

Material to be peeled, well seasoned lodge pole pine, tamarack, cedar, Eastern pine or birch. Joint to be glued. If any screws are used, counter-sink exposed heads, then conceal them with plastic wood or, preferably, false wooden dowel-like plugs. Finish to consist of the following proportioned materials: 4 parts turpentine, 4 parts raw linseed oil, 1 part drier, 1 part raw sienna, ½ part of burnt umber, and a touch of burnt sienna.

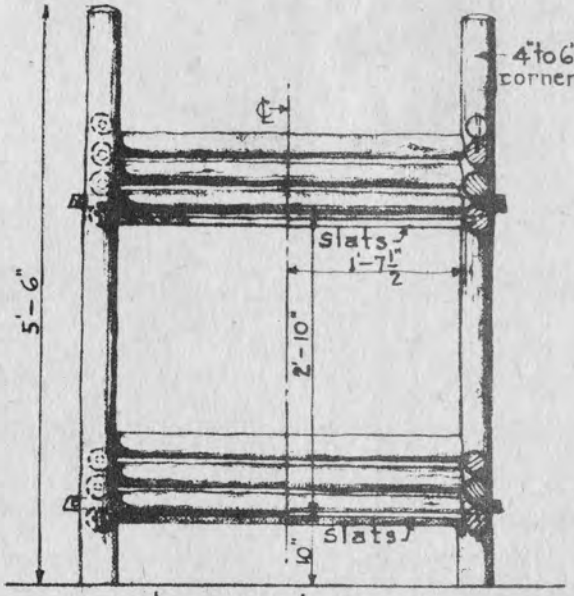
REGION–1.

· BENCHES ·

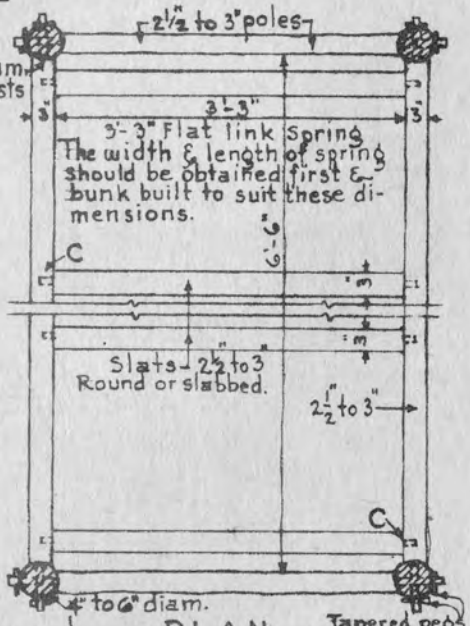
PLATE VIII



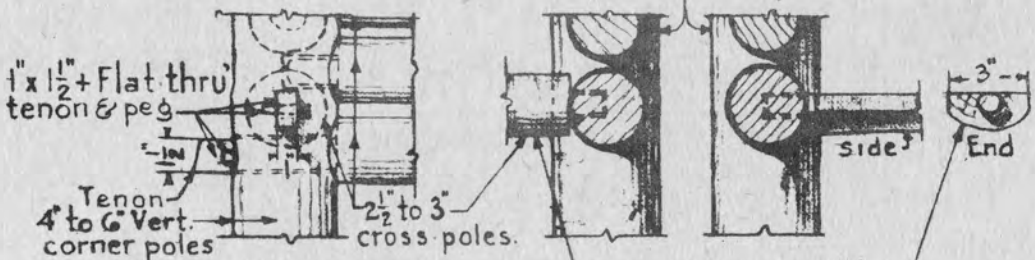
SIDE



½ END ½ SECTION



PLAN



A & B → see SIDE view above

Pole or Slab slats See Plan above at C

LEGEND

Material to be well seasoned, peeled lodge pole pine, tamarack, Eastern pine or birch. Finish to be of the following proportions: 2 qts. turpentine, 2 qts. raw linseed oil, 1 qt. liquid drier to which add 1 pt. raw sienna, ½ pt. burnt umber and a touch of burnt sienna.

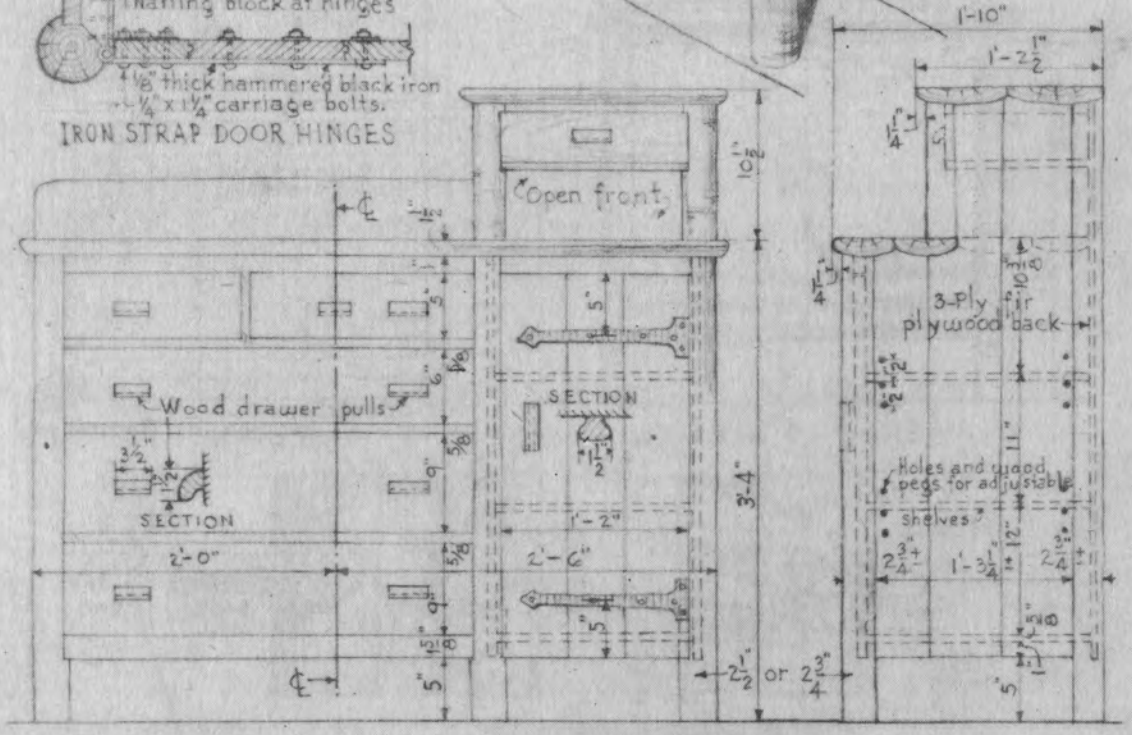
REGION—1.

· DOUBLE DECK BUNK ·

PLATE IX



IRON STRAP DOOR HINGES



FRONT SIDE

1/2 CHEST OF DRAWERS 1/2 BUFFET

LEGEND: Materials to be well seasoned, peeled tamarack, lodge pole pine, Eastern pine, or birch. Ends, doors, shelves, drawer fronts of #2 T. & G., com. p. pine. Finish to consist of the following proportioned materials: 2 qts. turpentine, 2 qts. raw linseed oil, 1 qt. drier, 1 pt. raw sienna, 1/2 pt. burnt umber, touch burnt sienna. Top surfaces to have 2 coats of spar varnish.

REGION - 1

CHEST & BUFFET

PLATE X