

Door posts to be 6' 9 $\frac{1}{2}$ " long over shoulders, and to be framed into headstocks and arch rails with single tenon, 1 $\frac{1}{2}$ " $\times$ 3 $\frac{1}{2}$ ", and 1 $\frac{1}{2}$ " long, as follows:—Commencing at end face with 2 $\frac{1}{2}$ " shoulder, 1 $\frac{1}{2}$ " tenon, and 1 $\frac{1}{2}$ " shoulder, and commencing at inside face with 2 $\frac{1}{2}$ " shoulder and 3 $\frac{1}{2}$ " tenon, and leaving flush face. One end post to be secured to each door post with six No. 20 screws, 2 $\frac{1}{2}$ " long, and to be morticed on one side only for furring between posts.

Window, side and end posts to be placed as shown in drawing, to be 6' 9 $\frac{1}{2}$ " long over shoulders, and to be framed into side sills and headstocks with single tenon 1 $\frac{1}{2}$ " long, full width of post, commencing at outside with 1 $\frac{1}{2}$ " shoulder, 1 $\frac{1}{2}$ " tenon, and 2 $\frac{1}{2}$ " shoulder, and same into wall plates with single tenon 1 $\frac{1}{2}$ " long; all to be checked $\frac{7}{8}$ " for belt rail, except those under splice, which are checked 1 $\frac{1}{2}$ ", and all to be checked $\frac{7}{8}$ " for panel rail; window and side posts to be checked $\frac{1}{2}$ " for truss plank and flooring. Fifty-two (52) window posts to be checked 2 $\frac{1}{2}$ " $\times$ $\frac{1}{2}$ " on inside for flat truss rod, as shown in drawings.

Window posts to be morticed on one side only, alternately, for furring between posts; side and end posts to be morticed on both sides, except where otherwise specified.

Window and side posts to be checked $\frac{7}{8}$ " for truss arch timbers where required.

Window posts to be grooved for sash heads, as shown in drawing. Stud posts under windows to be tenoned into side sill same as window posts, to have square bearing on furring below window sill, and to be checked for belt rail, panel rail, flat truss rod, and truss arch timbers same as window posts, but to be checked 1" for truss plank.

Tie rods through side sills and wall plates to be placed as shown in drawing, and to be 1 $\frac{1}{2}$ " from side of window post wherever possible.

Outside belt rail to have top bevelled for window sill, with bevel checked for post, to be placed as shown in drawing, and, except where spliced, to be checked $\frac{7}{8}$ " on inside for window, side and end posts, and stud posts below windows, and to be secured to each by two No. 18 screws 2" long; splice to be half lapped, each lap to be $\frac{5}{8}$ " thick by 10 $\frac{1}{2}$ " long, full depth of timber, to cover two window posts, leaving $\frac{1}{2}$ " check on inside of rail for posts, which are checked 1 $\frac{1}{2}$ " to suit as specified, and to be backed between posts with furring 5" deep by 1 $\frac{1}{2}$ " thick, well glued to belt rail and nailed to posts; splice to be secured to each post by two No. 20 screws 2 $\frac{1}{2}$ " long, and to furring by four No. 18 screws 2" long. Not more than two splices allowed in each side belt rail. Panel rail to be placed as shown in drawing, and mitred on truss arch timbers, to be checked $\frac{5}{8}$ " on inside for window, side and end posts, and secured to same by two No. 16 screws 1 $\frac{1}{2}$ " long to each post, except where rail is mitred, when one screw is sufficient; mitred ends to be well glued and nailed to truss arch timbers.

Wall plates to be rebated on outside bottom edge $\frac{3}{4}$ " $\times$ $\frac{3}{4}$ " to cover sheeting; also to be checked on top for rafters, where required, $\frac{3}{4}$ " deep by 2" from inside edge, full width of rafter, also to be tenoned into arch rails with double tenons 1 $\frac{1}{2}$ " long by 1 $\frac{1}{2}$ " deep, and flush with top face of wall plate; commencing at outside with 1 $\frac{1}{2}$ " shoulder, 1" tenon, 1 $\frac{1}{2}$ " space, 1" tenon and 1 $\frac{1}{2}$ " shoulder, and to be secured by one $\frac{1}{2}$ " joint bolt 9 $\frac{1}{2}$ " long to each timber, as shown in drawing.

TRUSS ARCH.—Centre timber of outer arch to be placed against under side of belt rail, to cover four window spaces in centre of car, and lap on half of window post; diagonal timbers to butt against each end of centre timbers, run down to sill over centre of bolster, and to be secured to truss rod strut by two No. 20 screws 3" long; end diagonals to butt against these, to be secured in same manner, and to run up to under side of belt rail and butt against second side post from ends of car; second post to be blocked with a piece of 3 $\frac{1}{2}$ " $\times$ 1 $\frac{1}{2}$ " furring under belt rail between first and second posts; furring to be well glued and nailed in place; all to be as shown in drawing.

Inner truss arch to have centre block covering space between centre windows, lapping on half of each post, and placed against under side of centre timber in outer arch; diagonals to butt against ends of centre block, run down to side sills, and butt against window post over centre of transom, also to be gained into side sill; all to be as shown in drawing.

Truss arch timbers to be checked $\frac{7}{8}$ " where required for window posts and stud posts under windows, which are also checked $\frac{7}{8}$ " as specified, and to be secured to each post by two No. 18 screws 2" long; joints on posts to have two screws to each piece.

Window panel furring to be tenoned into window, side and end posts with single tenon $\frac{1}{2}$ " long, full thickness of furring as follows:—Commencing at outside with 1 $\frac{1}{2}$ " shoulder, 1 $\frac{1}{2}$ " tenon, and 1 $\frac{1}{2}$ " shoulder.

Arch rails to be checked for furret sills and door head as shown in drawing, also to be morticed for wall plate, as specified; and to be secured to headstock by two $\frac{3}{4}$ " tie rods outside door posts, and two $\frac{1}{2}$ " rods with $\frac{5}{8}$ " ends inside corner posts, with nuts checked in arch rail and placed as in drawing.