WOOD FRAMING:

FRAMING MATERIAL: Wood framing shall have stiles and rails of Douglas Fir, construction grade or suitable equal material.

CONSTRUCTION: See corner details A & B.

Construction shall consist of 2" x 3" top and bottom rails mounted on edge.

SPACING OF NAILING PIECES: To accommodate Horizontal Siding (per design diagram A) doors shall be framed so that stiles form vertical nailing pieces approximately 24" on center, but may vary in spacing with increased thickness of facing material.

Maximum acceptable spacing is 24" o.c. with minimum thickness drop or ship lap siding of 1/2". When using 3/4" and up facing material, the maximum spacing of 30" o.c. is acceptable.

For tongue and groove siding the o.c. spacing may be increased by 4" to a maximum of 28" o.c. for 5/8" siding and a maximum of 34" o.c. under any conditions.

To accommodate Vertical Siding (per design diagram B) doors shall be framed with center stile consisting of 1 - 2" x 3" mounted on edge between top and bottom rails. A minimum of three horizontal 2" x 3" shall be used, mounted on edge between the center stile and each end stile to form nailing pieces approximately 21" o.c. Center stile is unnecessary in doors under 10' wide.

To accommodate Half and Half Siding (per design diagram C and D) doors shall be framed according to the appropriate diagram on design sheet as indicated in design D, with a maximum of 22" o.c. nailing provided for vertical siding on top half of door by providing a maximum of 50" between top rail and bottom horizontal nailing piece to accommodate the vertical siding. For water table see details.

For application of Plywood Facing and Hard Board (per design diagram E and F) as a special framing design consisting of five vertical nailing pieces including end stiles, top and bottom rail and horizontal blocking between stiles running the width of the door to form twelve sections. Horizontal pieces must be in contact with vertical members where they meet.

BRACING OF FRAME: A 1" x 3" "A" brace shall be provided and installed at approximately 45 deg. angle rail too Style. Nailing of "A" brace on rear side of frame is acceptable. Notching of frame to accept "A" brace is permissible, but not required. Corner bracing is not acceptable. It is permissible to anchor "A" brace to end stiles. "A" brace to be used on 4" to 12" siding only; not necessary on Plywood or Hardboard Facing.

NAILING OF FRAME: Hot dipped galvanized or aluminum nails shall be used when nails are exposed to weather. A combination of end nailing with 16d nails and toe nailing with 2 8d nails shall be used at all points where horizontal and vertical frame members intersect. In cases where two members butt up against each side of an intersecting member, at least one member shall be end nailed.

DOOR SIZES:

Size of doors shall conform to plans and specifications.

DOUBLE DOOR: The standard double garage door shall be at least 156" wide between the jams, but shall not exceed 16' in width between the jams. Minimum clearance from garage floor to the head jamb shall be 6' 11 1/2" and the maximum clearance shall not exceed 7'.

SINGLE DOOR: The minimum size for a single door shall not be less than 8' in width. Door sizes departing from the minimum and maximum as set forth shall be considered custom style doors, but might not conform to FHA and VA requirements.

SIDING:

<table>
<thead>
<tr>
<th>Kind</th>
<th>Minimum Thickness</th>
<th>Minimum Quality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Redwood</td>
<td>1/2' ship-lap or drop</td>
<td>A Grade</td>
</tr>
<tr>
<td></td>
<td>siding/16x3/16x8 beveled</td>
<td></td>
</tr>
<tr>
<td></td>
<td>siding and 3/16x9/16x10</td>
<td>Clear All Heart</td>
</tr>
<tr>
<td>Ponderosa Pine</td>
<td>5/8' tongue and groove</td>
<td>C Select</td>
</tr>
<tr>
<td>Ponderosa Pine</td>
<td>3/4' drop siding</td>
<td>C Select</td>
</tr>
<tr>
<td>D. F. Plywood</td>
<td>3/8' exterior grade</td>
<td>A- C</td>
</tr>
<tr>
<td>Hard Board</td>
<td>1/4' tempered</td>
<td></td>
</tr>
</tbody>
</table>

Nailed six inches o.c. around edges, and eight inches o.c. along intermediate with hot dipped galvanized nails. When decorative plant-ons are used on facing of door, they are to be nailed on with fasteners or hot dipped galvanized or cement coated nails. All nails or fasteners protruding beyond the surface of Hard Board shall be clinched (to fix firmly by folding over) with hammer or blunt instrument so that the point of nail or fastener is turned toward the face of the Hardboard product.

Moisture content shall not exceed 12%. In arid areas, 8% shall be the maximum.

Splicing of boards is permissible with a maximum of one splice per board. Top and bottom boards shall be full length (not spliced). No two adjacent splices or end joints shall occur over the same nailing piece.

Plywood edges must be protected against splintering and ply separation by setting back 1/4" from bottom edge of frame.

NAILING: Hot dipped galvanized or aluminum nails shall be used. A minimum of two nails per bearing shall be used on a 6' board, 3 to an 8' board, and 4 to a board 10" in width. For nailing plywood or hard board, spacing of nails shall not exceed 6". Stapling of plywood is permissible as set forth in FHA bulletin MPR, Section 419A, dated October 7, 1955. For nailing boards 1/2" and under in thickness 8d nails shall be used and 6d nails for 4" boards.

HARDWARE:

1. Minimum thickness truss rods of 5/16" shall be acceptable trusting material in Southern California. It shall be mounted with the appropriate brackets in preference to being mounted through end styles. Doors 10' and over must have at least one truss rod and 12' and over must have at least two truss rods. 10' doors construction with 2 x 4 T & B nails shall not require truss rods. Truss rod threading is required in one end of rod only.

2. Hardware manufacturers shall be responsible for the limits recommended on each particular model of hardware.

3. Hardware shall have designated on it by decal or other appropriate inscription, the maximum limitations for said hardware. This information shall specify maximum weight of door it is to be used upon.

4. Metal keeper shall be used around female member of bolt type locking device.

ADDENDUM

1. SIDING -- 5/8" shall be the minimum thickness for siding 10" wide and over.
ATTACHMENT 14

OVERHEAD GARAGE DOOR STANDARDS  
as adopted by  
CALIFORNIA OVERHEAD DOOR ASSOCIATION

WATERTABLE DET.