Casa de Dios

16’ x 20’ House

Construction Plans

In Association with Baja Christian Ministries www.bajachristian.org

Downloads (PDF) available on-line at www.teamcasa.org
Also available – VIP Latrine plans – Casita Plans
Special Thanks to Hector Rubio for his service and help in creating these plans.
CAD files available upon request.
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Rev. June 9, 2007
# Casa de Dios Cut List

<table>
<thead>
<tr>
<th>Legend</th>
<th>Qty</th>
<th>Dimension</th>
<th>Location/Description</th>
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<tbody>
<tr>
<td>A</td>
<td>4</td>
<td>2&quot;x 4&quot; x 20'</td>
<td>Long Wall Top and Bottom Plate</td>
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<tr>
<td>B</td>
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<td>2&quot;x 4&quot; x 185&quot;</td>
<td>Short Wall Top and Bottom Plate</td>
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<td>C</td>
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<td>2&quot;x 4&quot; x 16'</td>
<td>Top Plates Short Walls</td>
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<td>D</td>
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<td>Bedroom /Center Wall Top Plate</td>
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<td>Bedroom Top/Bottom Plate</td>
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<td>G</td>
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<td>2&quot;x 4&quot; x 92-1/4&quot;</td>
<td>Wall Studs</td>
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<td>11</td>
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<td>Window Frames/Cripples/Headers</td>
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<td>Pressure/Bird Blocks Roof</td>
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<td>1/2&quot; Plywood Roof Sheeting -Full Sheets</td>
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<td>Center Cripple Roof Stud</td>
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<td>End Wall Roof Cripple</td>
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<td>2&quot;x 4&quot; x 34-3/4&quot; – 40-3/4&quot;</td>
<td>End Wall Roof Cripple</td>
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</tbody>
</table>

**Notes:** Verify ALL measurements!  
Check ALL windows and doors **PRIOR** any cutting!  
Measure twice! Cut Once!
Details 1-4 Show how to mark the chalk lines.

Wall Framing Left
See Detail 6

Wall Framing Bedroom
See Detail 10

Wall Framing Right
See Detail 7

Wall Framing
See Detail 8

Floor Plan
When laying out rafters using a speed square use the **COMMON** scale **6** or degrees **26.5 deg.**
Make 4 letter Z's - 2 full sheets required

Make 4 letter Y's - 1 full sheet required

Cut 2 Pcs

Cut 4 Pcs

Make 4 letter W's - 2 full sheets required

Make 6 letter X's - 3 full sheets required

Cut 2 Pcs

Make 4 letter Y's - 1 full sheet required

Make 6 letter X's - 3 full sheets required

Make 4 letter W's - 2 full sheets required

Roof Plywood Cutting Diagram
Hole location:
Measure FROM the chalk line to the center of the anchor bolt. Mark the sill.

1-3/8" Anchor Bolt
Drill 3/4" hole in plate

Pencil Mark 3-1/2" in from edge of slab

2"x 4" Bottom Sill

Detail 1 Layout - Marking - Chalk Lines
Detail 2 - Layout Lines - Long Walls First

Snap this chalk line FIRST

Measure from Edge of Slab to snap FIRST line

Snap this chalk line SECOND

Measure from Edge of Slab to mark for second snap line

Measure from Edge of Slab to snap FIRST line

Edge of slab

3-1/2"
Detail 3 - Layout Lines - Short Walls Second

Beginning at the edge of the slab, measure 3 1/2" from the edge to mark the start for the third snap line. Measure 9' along to the first snap line and then diagonally 15' to mark the point for the third snap line.

First chalk line

Second chalk line

Edge of slab

First chalk line

Second chalk line

Edge of slab

Measure 9' along to first snap line then diagonally 15' to mark point for third snap line.

Measure 3 1/2" from edge of slab to mark start for third snap line.
Detail 4 - Layout Lines - Short Walls Third

First chalk line

Second chalk line

Third chalk line

Fourth chalk line

Edge of slab

Measure at each end of third chalk line to determine marks for chalk line 4. This will insure all walls are parallel and square.
California Corner
only on long walls

Door Header Details

Use Scraps for back
will provide nailing for
sheeting & trim
Detail 6 - Long Wall Framing Left Side

Begin layout with measuring tape "hooked" one the end of the plate. Mark for 24" on center. Make two marks as illustrated. Center stud between points.

2"x6"x117-1/4" Ledger for Ceiling Joists

2"x6"x182" Floor/Ceiling Joists
Detail 7 - Long Wall Framing Right Side

2"x6"x117-1/4" Ledger for Ceiling Joists
240"

118-3/4"

110-3/4"

82"

2"x 6"x 182" Floor/Ceiling Joists

2"x 6"x 117-1/4" Ledger

Begin layout with measuring tape "hooked" one the end of the plate. Mark for 24" on center. Make two marks as illustrated. Center stud between points.
Detail 8 - Front Wall Framing

Begin layout with measuring tape 3-1/2" past end of the end of the plate. Mark for 24" on center. Make two marks as illustrated. Center stud between points.

Verify all door measurements.

Note: Watch or Anchor bolt locations indoor way.

See Cut Sheet for Rafter and Cripple Details
Verify all window measurements.

Detail 9 - Rear Wall Framing

Begin layout with measuring tape 3 1/2" past end of the end of the plate. Mark for 24" on center. Make two marks as illustrated. Center stud between points.
Detail 10 - Bedroom Wall Framing

Concrete Nail - one each bay

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3/4" Plywood floor

Detail 11 - Loft Framing - Sheeting
Detail 12 - Wall Section

1/2" Plywood Sheeting

2" x 4" Fascia

Sheeting MUST be BELOW RAFTERS.

1/2" Anchor Bolt

1/2" Drywall Spaced 1/2" Above Floor

1" Plywood Sheeting Overlap

Fascia must be below sheeting

Sheeting MUST be BELOW RAFTERS and overhang on the slab.

1/2" Plywood Sheeting over felt paper (opt.)

1/2" lap over slab

1/2" Plywood Sheeting Overlap

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Detail 5

36"

17-1/4"
Detail 13 - Roof Plan - Top View

2' x 8' Plywood sheeting (6 pcs)

4' x 4' Plywood sheeting (4 pcs)

4' x 8' Plywood sheeting (10 pcs)

See Cut Sheet for Rafter Details

Pressure Blocks

22-3/8" 21-3/4"

16 pcs

4 pcs

24" 24" 24"
1. Framing First
2. Window Second - 1 Nail each corner
3. Plywood Third
4. Trim Last with caulkig around the top and sides
Detail 15 - Typical Trim
Electrical Outline

2 Circuits:
First one runs to the bedroom outlets then to the switches then to the lamps.

Second one runs to the living room outlet - then to the switch then to the lamps.

Install all outlet & switch boxes 1/2" out from stud and 4'-1/2" above floor.