By using these standard plans, the user agrees to release the County of San Diego from any responsibility to verify any and all information.

EXTERIOR WALLS OF BUILDINGS

1. Exterior wall finish shall comply with one of the following:
   a. Non-combustible material: stucco, cement fiber board, etc. coating directly to the underside of roof covering underlayment or any other approved exterior wall covering provided that all of the following are met:
      - THERE SHALL BE NO FLAMING IGNITION DURING THE INTEGRITY TEST.
      - THERE SHALL BE NO FLAMING IGNITION OF THE COTTON MATERIAL DURING THE EMBER INTRUSION TEST.
      - THERE SHALL BE NO FLAMING IGNITION OF THE COTTON MATERIAL DURING THE PORTION OF THE FLAME INTRUSION TEST.
   b. Approved exterior fire-retardant treated wood non-combustible or fire-retardant treated wood shake or shingle:
      - Non-combustible or fire-retardant treated wood shake or shingle shall be 7/8-inch thick, used as an exterior wall covering.
      - Underlayment of minimum 1/2-inch fire-rated gypsum board or other approved materials.
      - Fire-stop materials.
   c. Other approved materials.

2. Exterior doors shall be listed to ASTM E2886 and comply with the following:
   a. Fire-stopping with approved materials.
   b. One layer of taping (2 mil minimum) installed over the exterior door jambs and headers.
   c. Door shall overlap onto jamb and header by 1/8 inch or less using one of the following:
      - One-hour fire-resistant-rated material.
      - Approved alternative decking material meeting tests requirements of County Building Code 92.1.709A.1.4.
      - Approved exterior fire-retardant treated wood decking and tread material (any of the following):
        - Modified heavy timber (min. 2x tongue-and-groove posts).
        - Approved exterior fire-retardant treated wood framing and sheathing, 4x6 rafters/beams, 6x6 posts.
        - Non-combustible material (stucco, cement fiber board, etc).

3. Exterior wall finish shall comply with the following:
   a. Non-combustible material: stucco, cement fiber board, etc. coating directly to the underside of roof covering underlayment or any other approved exterior wall covering provided that all of the following are met:
      - THERE SHALL BE NO FLAMING IGNITION DURING THE INTEGRITY TEST.
      - THERE SHALL BE NO FLAMING IGNITION OF THE COTTON MATERIAL DURING THE EMBER INTRUSION TEST.
      - THERE SHALL BE NO FLAMING IGNITION OF THE COTTON MATERIAL DURING THE PORTION OF THE FLAME INTRUSION TEST.
   b. Approved exterior fire-retardant treated wood non-combustible or fire-retardant treated wood shake or shingle:
      - Non-combustible or fire-retardant treated wood shake or shingle shall be 7/8-inch thick, used as an exterior wall covering.
      - Underlayment of minimum 1/2-inch fire-rated gypsum board or other approved materials.
      - Fire-stop materials.
   c. Other approved materials.

4. Exterior doors shall be listed to ASTM E2886 and comply with the following:
   a. Fire-stopping with approved materials.
   b. One layer of taping (2 mil minimum) installed over the exterior door jambs and headers.
   c. Door shall overlap onto jamb and header by 1/8 inch or less using one of the following:
      - One-hour fire-resistant-rated material.
      - Approved alternative decking material meeting tests requirements of County Building Code 92.1.709A.1.4.
      - Approved exterior fire-retardant treated wood decking and tread material (any of the following):
        - Modified heavy timber (min. 2x tongue-and-groove posts).
        - Approved exterior fire-retardant treated wood framing and sheathing, 4x6 rafters/beams, 6x6 posts.
        - Non-combustible material (stucco, cement fiber board, etc).

5. Exterior wall finish shall comply with one of the following:
   a. Non-combustible material: stucco, cement fiber board, etc. coating directly to the underside of roof covering underlayment or any other approved exterior wall covering provided that all of the following are met:
      - THERE SHALL BE NO FLAMING IGNITION DURING THE INTEGRITY TEST.
      - THERE SHALL BE NO FLAMING IGNITION OF THE COTTON MATERIAL DURING THE EMBER INTRUSION TEST.
      - THERE SHALL BE NO FLAMING IGNITION OF THE COTTON MATERIAL DURING THE PORTION OF THE FLAME INTRUSION TEST.
   b. Approved exterior fire-retardant treated wood non-combustible or fire-retardant treated wood shake or shingle:
      - Non-combustible or fire-retardant treated wood shake or shingle shall be 7/8-inch thick, used as an exterior wall covering.
      - Underlayment of minimum 1/2-inch fire-rated gypsum board or other approved materials.
      - Fire-stop materials.
   c. Other approved materials.

6. Exterior walls, ceilings, decks, balconies, and exterior stair construction, with all exposed elements shall comply with the following:
   a. Non-combustible material: stucco, cement fiber board, etc. coating directly to the underside of roof covering underlayment or any other approved exterior wall covering.
   b. Approved exterior fire-retardant treated wood non-combustible or fire-retardant treated wood shake or shingle:
      - Non-combustible or fire-retardant treated wood shake or shingle shall be 7/8-inch thick, used as an exterior wall covering.
      - Underlayment of minimum 1/2-inch fire-rated gypsum board or other approved materials.
      - Fire-stop materials.
   c. Other approved materials.

7. Exterior walls, ceilings, decks, balconies, and exterior stair construction, with all exposed elements shall comply with the following:
   a. Non-combustible material: stucco, cement fiber board, etc. coating directly to the underside of roof covering underlayment or any other approved exterior wall covering.
   b. Approved exterior fire-retardant treated wood non-combustible or fire-retardant treated wood shake or shingle:
      - Non-combustible or fire-retardant treated wood shake or shingle shall be 7/8-inch thick, used as an exterior wall covering.
      - Underlayment of minimum 1/2-inch fire-rated gypsum board or other approved materials.
      - Fire-stop materials.
   c. Other approved materials.

8. Exterior walls, ceilings, decks, balconies, and exterior stair construction, with all exposed elements shall comply with the following:
   a. Non-combustible material: stucco, cement fiber board, etc. coating directly to the underside of roof covering underlayment or any other approved exterior wall covering.
   b. Approved exterior fire-retardant treated wood non-combustible or fire-retardant treated wood shake or shingle:
      - Non-combustible or fire-retardant treated wood shake or shingle shall be 7/8-inch thick, used as an exterior wall covering.
      - Underlayment of minimum 1/2-inch fire-rated gypsum board or other approved materials.
      - Fire-stop materials.
   c. Other approved materials.

9. Exterior walls, ceilings, decks, balconies, and exterior stair construction, with all exposed elements shall comply with the following:
   a. Non-combustible material: stucco, cement fiber board, etc. coating directly to the underside of roof covering underlayment or any other approved exterior wall covering.
   b. Approved exterior fire-retardant treated wood non-combustible or fire-retardant treated wood shake or shingle:
      - Non-combustible or fire-retardant treated wood shake or shingle shall be 7/8-inch thick, used as an exterior wall covering.
      - Underlayment of minimum 1/2-inch fire-rated gypsum board or other approved materials.
      - Fire-stop materials.
   c. Other approved materials.

10. Exterior walls, ceilings, decks, balconies, and exterior stair construction, with all exposed elements shall comply with the following:
    a. Non-combustible material: stucco, cement fiber board, etc. coating directly to the underside of roof covering underlayment or any other approved exterior wall covering.
    b. Approved exterior fire-retardant treated wood non-combustible or fire-retardant treated wood shake or shingle:
       - Non-combustible or fire-retardant treated wood shake or shingle shall be 7/8-inch thick, used as an exterior wall covering.
       - Underlayment of minimum 1/2-inch fire-rated gypsum board or other approved materials.
       - Fire-stop materials.
    c. Other approved materials.

11. Exterior walls, ceilings, decks, balconies, and exterior stair construction, with all exposed elements shall comply with the following:
    a. Non-combustible material: stucco, cement fiber board, etc. coating directly to the underside of roof covering underlayment or any other approved exterior wall covering.
    b. Approved exterior fire-retardant treated wood non-combustible or fire-retardant treated wood shake or shingle:
       - Non-combustible or fire-retardant treated wood shake or shingle shall be 7/8-inch thick, used as an exterior wall covering.
       - Underlayment of minimum 1/2-inch fire-rated gypsum board or other approved materials.
       - Fire-stop materials.
    c. Other approved materials.

12. Exterior walls, ceilings, decks, balconies, and exterior stair construction, with all exposed elements shall comply with the following:
    a. Non-combustible material: stucco, cement fiber board, etc. coating directly to the underside of roof covering underlayment or any other approved exterior wall covering.
    b. Approved exterior fire-retardant treated wood non-combustible or fire-retardant treated wood shake or shingle:
       - Non-combustible or fire-retardant treated wood shake or shingle shall be 7/8-inch thick, used as an exterior wall covering.
       - Underlayment of minimum 1/2-inch fire-rated gypsum board or other approved materials.
       - Fire-stop materials.
    c. Other approved materials.

13. Exterior walls, ceilings, decks, balconies, and exterior stair construction, with all exposed elements shall comply with the following:
    a. Non-combustible material: stucco, cement fiber board, etc. coating directly to the underside of roof covering underlayment or any other approved exterior wall covering.
    b. Approved exterior fire-retardant treated wood non-combustible or fire-retardant treated wood shake or shingle:
       - Non-combustible or fire-retardant treated wood shake or shingle shall be 7/8-inch thick, used as an exterior wall covering.
       - Underlayment of minimum 1/2-inch fire-rated gypsum board or other approved materials.
       - Fire-stop materials.
    c. Other approved materials.

14. Exterior walls, ceilings, decks, balconies, and exterior stair construction, with all exposed elements shall comply with the following:
    a. Non-combustible material: stucco, cement fiber board, etc. coating directly to the underside of roof covering underlayment or any other approved exterior wall covering.
    b. Approved exterior fire-retardant treated wood non-combustible or fire-retardant treated wood shake or shingle:
       - Non-combustible or fire-retardant treated wood shake or shingle shall be 7/8-inch thick, used as an exterior wall covering.
       - Underlayment of minimum 1/2-inch fire-rated gypsum board or other approved materials.
       - Fire-stop materials.
    c. Other approved materials.

15. Exterior walls, ceilings, decks, balconies, and exterior stair construction, with all exposed elements shall comply with the following:
    a. Non-combustible material: stucco, cement fiber board, etc. coating directly to the underside of roof covering underlayment or any other approved exterior wall covering.
    b. Approved exterior fire-retardant treated wood non-combustible or fire-retardant treated wood shake or shingle:
       - Non-combustible or fire-retardant treated wood shake or shingle shall be 7/8-inch thick, used as an exterior wall covering.
       - Underlayment of minimum 1/2-inch fire-rated gypsum board or other approved materials.
       - Fire-stop materials.
    c. Other approved materials.
By using these standard plans, the user agrees to release the County of San Diego from any and all claims, liabilities, suits, and demands on account of any injury, damage, or loss to persons or property, including injury or death, or economic losses, arising out of the use of these construction documents. The use of these plans does not eliminate or reduce the user's responsibility to verify any and all information.

1. MIN 250 S.F. SOLAR ZONE AREA
2. DEDICATED SOLAR ZONE AREA LOCATED BETWEEN 110 AND 270 DEGREES OF TRUE NORTH - USE AREA A OR B AS NEEDED.
3. NO OBSTRUCTIONS - INCLUDING VENTS, CHIMNEYS, SKYLIGHTS, ARCHITECTURAL FEATURES, ROOF-MOUNTED EQUIPMENT - LOCATED WITHIN SOLAR ZONE.
4. 3" MIN FIRE FIGHTER ACCESS
5. 1'-6" SMOKE VENTILATION SETBACK AT RIDGES

SOLAR READY KEY NOTES

ATTIC VENTILATION REQUIRED

NET FREE CROSS VENTILATION AREA =
VENT AREA RECD = 1000 ft$^2$ = 3.33 ft$^2$ x 480 ft$^2$

GABLE END VENTS
NFVA = 115 ft$^2$
QTY = 2 VENTS
VENT AREA PROVIDED = 2 x 115 ft$^2$ = 230 ft$^2$

EAVE VENTS
NFVA = 36 ft$^2$
QTY = 12 VENTS
VENT AREA PROVIDED = 10 x 36 ft$^2$ = 276 ft$^2$

TOTAL VENT AREA PROVIDED
230 ft$^2$ + 276 ft$^2$ = 506 ft$^2$ > 480 ft$^2$

NET FREE CROSS VENTILATION AREA =
VENT AREA RECD = 1000 ft$^2$ = 3.33 ft$^2$ x 480 ft$^2$

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**Foundation Plan**

- All anchoring to shall be symmetric and made a minimum embedment of 12" with 3/16" = 1'-0" scale to allow for embedment of anchor bolts.
- All sill plate anchors shall be used and not out of specification.
- Provide a minimum of two anchor bolts per sill plate, with one bolt located minimum 12", and minimum 7 bolt diameters from each end of each section.
- Do not place anchors over the proposed position of footing to basement.
- Anchoring shall be symmetric and made a minimum embedment of 12" with 3/16" = 1'-0" scale to allow for embedment of anchor bolts.
- All anchors shall be placed with a minimum embedment of 7" into concrete (UNO) and not spaced more than 6 feet apart.
- 3"x3"x0.229" plate washers shall be used on each sill plate anchor bolt.
- For standard star anchors placed between plate washer and nut, voice plate washer may be diagonally slotted with minimum 1/16" X 11" longer than bolt diameter or maximum 1/4".
- Provide a minimum of two anchor bolts per sill plate, with one bolt located minimum 12", and minimum 7 bolt diameters from each end of each section.
- Bolt shall be located in the middle third of the sill plate width.
- Fasteners for pressure-preservative treated and fire retardant treated wood shall be hot-dipped zinc coated galvanized, stainless steel or copper.

**Wood Structural Panel Sheathing**

- Vertical joints of panel sheathing shall occur over and be fastened to common studs.
- Horizontal joints in braced wall panels shall occur over and be fastened to common blocking of a minimum 1" thick.

**Foundation Plan Notes**

1. All anchor bolts shall be symmetrically placed and made a minimum embedment of 12" with a 3/16" = 1'-0" scale to allow for embedment of anchor bolts.
2. All sill plate anchors shall be used and not out of specification.
3. Provide a minimum of two anchor bolts per sill plate, with one bolt located minimum 12", and minimum 7 bolt diameters from each end of each section.
4. Bolt shall be located in the middle third of the sill plate width.
5. Fasteners for pressure-preservative treated and fire retardant treated wood shall be hot-dipped zinc coated galvanized, stainless steel or copper.

**Legend**

- # Braced Wall Line
- EDGES (inches o/c) FIELD (inches o/c)

**Wood Structural Panel Sheathing**

<table>
<thead>
<tr>
<th>MARK</th>
<th>MINIMUM NAIL</th>
<th>MINIMUM WOOD PANEL THICKNESS (in)</th>
<th>MAXIMUM STUD SPACING (in)</th>
<th>PANEL NAIL SPACING</th>
</tr>
</thead>
<tbody>
<tr>
<td>3D COMMON</td>
<td>1.5</td>
<td>24.0</td>
<td>16</td>
<td>6</td>
</tr>
<tr>
<td>3D COMMON</td>
<td>1.75</td>
<td>24-16</td>
<td>16</td>
<td>6</td>
</tr>
</tbody>
</table>

Wood structural panels shall conform to DOC PS 1, DOC PS 2 OR ANDWA PS 215, CSA O157 OR CSA O125.

All panels shall be identified by a grade mark or certificate of inspection issued by an approved agency.

Vertical joints of panel sheathing shall occur over and be fastened to common studs.

Horizontal joints in braced wall panels shall occur over and be fastened to common blocking of a minimum 1" thick.

**Foundation Plan Notes**

1. All anchor bolts shall be symmetrically placed and made a minimum embedment of 12" with a 3/16" = 1'-0" scale to allow for embedment of anchor bolts.
2. All sill plate anchors shall be used and not out of specification.
3. Provide a minimum of two anchor bolts per sill plate, with one bolt located minimum 12", and minimum 7 bolt diameters from each end of each section.
4. Bolt shall be located in the middle third of the sill plate width.
5. Fasteners for pressure-preservative treated and fire retardant treated wood shall be hot-dipped zinc coated galvanized, stainless steel or copper.
By using these standard plans, the user agrees to release the County of San Diego from any and all claims, liabilities, suits, and demands on account of any injury, damage, or loss to persons or property, including injury or death, or economic losses, arising out of the use of these construction documents. The use of these plans does not eliminate or reduce the user's responsibility to verify any and all information.

WOOD STRUCTURAL PANEL SHEATHING

<table>
<thead>
<tr>
<th>MARK</th>
<th>MINIMUM NAIL SIZE</th>
<th>MINIMUM WOOD PANEL SPAN RATING</th>
<th>MINIMUM PANEL THICKNESS (in)</th>
<th>MAXIMUM WALL STUD SPACING (in)</th>
<th>PANEL NAIL SPACING</th>
</tr>
</thead>
<tbody>
<tr>
<td>6D COMMON</td>
<td>1.5</td>
<td>24:0</td>
<td>2</td>
<td>16</td>
<td>6, 12</td>
</tr>
<tr>
<td>8D COMMON</td>
<td>1.75</td>
<td>24:16</td>
<td>2</td>
<td>16</td>
<td>6, 12</td>
</tr>
</tbody>
</table>

Wood structural panels shall conform to DOC PS 1, DOC PS 2 or ANSI/ APA PRP 210. CSA O437 or CSA O325. Panels shall be identified by a grade mark or certificate of inspection issued by an approved agency. Vertical joints of panel sheathing shall occur over and be fastened to common studs. Horizontal joints in braced wall panels shall occur over and be fastened to common blocking of a minimum 1-3/16" thickness.

ROOF FRAMING PLAN

3/16" = 1'-0"
A. General

1. Ventilation: All projects shall comply with the County of San Diego Ventilation Code (CRC R155). The following shall be considered part of the building ventilation system and shall be either continually or intermittently operated:
   a. Mechanical systems supplying air to occupiable space through supply and return ducts.
   b. Transfer air.
   c. Intermittently operated whole-building ventilation fans.
   d. Mechanical systems supplying air to occupiable space through supply and return ducts.
   e. Freestanding fans with or without ducts.
   f. Mechanical systems supplying air to occupiable space through supply and return ducts.
   g. Mechanical systems supplying air to occupiable space through supply and return ducts.
   h. Mechanical systems supplying air to occupiable space through supply and return ducts.
   i. Mechanical systems supplying air to occupiable space through supply and return ducts.
   j. Mechanical systems supplying air to occupiable space through supply and return ducts.
   k. Mechanical systems supplying air to occupiable space through supply and return ducts.
   l. Mechanical systems supplying air to occupiable space through supply and return ducts.
   m. Mechanical systems supplying air to occupiable space through supply and return ducts.
   n. Mechanical systems supplying air to occupiable space through supply and return ducts.
   o. Mechanical systems supplying air to occupiable space through supply and return ducts.
   p. Mechanical systems supplying air to occupiable space through supply and return ducts.
   q. Mechanical systems supplying air to occupiable space through supply and return ducts.
   r. Mechanical systems supplying air to occupiable space through supply and return ducts.
   s. Mechanical systems supplying air to occupiable space through supply and return ducts.
   t. Mechanical systems supplying air to occupiable space through supply and return ducts.
   u. Mechanical systems supplying air to occupiable space through supply and return ducts.
   v. Mechanical systems supplying air to occupiable space through supply and return ducts.
   w. Mechanical systems supplying air to occupiable space through supply and return ducts.
   x. Mechanical systems supplying air to occupiable space through supply and return ducts.
   y. Mechanical systems supplying air to occupiable space through supply and return ducts.
   z. Mechanical systems supplying air to occupiable space through supply and return ducts.

2. Plumbing: All projects shall comply with the County of San Diego Plumbing Code (CRC R156). All plumbing systems shall have a minimum rating of P125. All plumbing systems shall be designed and installed in accordance with the County of San Diego Plumbing Code (CRC R156).

3. Electrical: All projects shall comply with the County of San Diego Electrical Code (CRC R157). All electrical systems shall have a minimum rating of P125. All electrical systems shall be designed and installed in accordance with the County of San Diego Electrical Code (CRC R157).

B. Building Envelope

4. Foundation and Subfloor
   a. Floor framing into the side of a wood girder shall be solid-blocked with minimum 2-inch nominal lumber spaced at maximum 4 feet on center.
   b. Where joists are perpendicular to a shear wall or partitions more than the joist depth unless such joists are of sufficient size to consider part of the shear wall line.
   c. Drilling and notching of top plate shall be in accordance with CRC Table R602.3(5). (CRC R602.3.1)
   d. Shear walls shall meet minimum length requirements of Exception: (source-separated) or bulk mixed (single stream) recycling.
   e. Mechanical systems supplying air to occupiable space through supply and return ducts.
   f. A copy of all special inspection verifications required by the enforcing agency or code.
   g. Fireplaces shall be installed in accordance with the County of San Diego Building Code (CRC R154). All fireplaces shall have a minimum rating of P125. Fireplaces shall be designed and installed in accordance with the County of San Diego Building Code (CRC R154).
   h. Mechanical systems supplying air to occupiable space through supply and return ducts.
   i. Mechanical systems supplying air to occupiable space through supply and return ducts.
   j. Mechanical systems supplying air to occupiable space through supply and return ducts.
   k. Mechanical systems supplying air to occupiable space through supply and return ducts.
   l. Mechanical systems supplying air to occupiable space through supply and return ducts.
   m. Mechanical systems supplying air to occupiable space through supply and return ducts.
   n. Mechanical systems supplying air to occupiable space through supply and return ducts.
   o. Mechanical systems supplying air to occupiable space through supply and return ducts.
   p. Mechanical systems supplying air to occupiable space through supply and return ducts.
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   u. Mechanical systems supplying air to occupiable space through supply and return ducts.
   v. Mechanical systems supplying air to occupiable space through supply and return ducts.
   w. Mechanical systems supplying air to occupiable space through supply and return ducts.
   x. Mechanical systems supplying air to occupiable space through supply and return ducts.
   y. Mechanical systems supplying air to occupiable space through supply and return ducts.
   z. Mechanical systems supplying air to occupiable space through supply and return ducts.

C. Graph: Graph showing the relationship between minimum requirements and other equivalent design software or methods.