



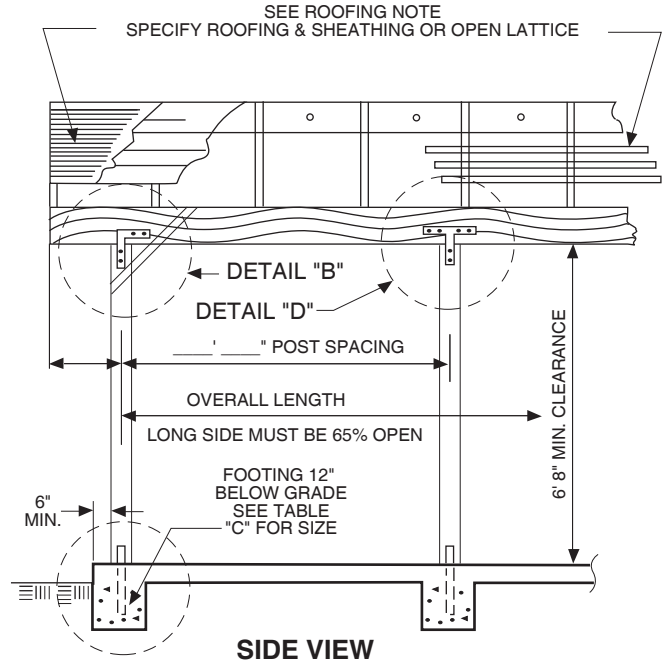
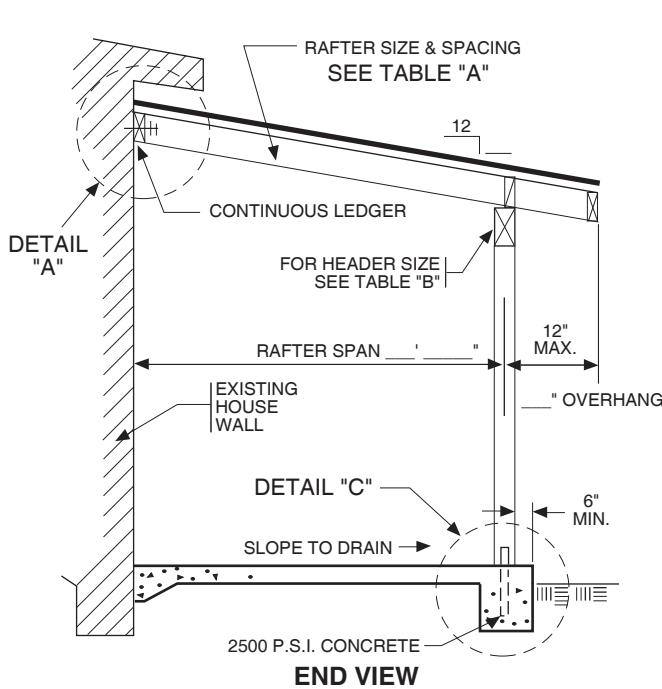
**Planning & Building Agency**  
**Building Safety Division**  
 20 Civic Center Plaza  
 P.O. Box 1988 (M-19)  
 Santa Ana, CA 92702  
 (714) 647-5800  
 www.santa-ana.org

# PATIO COVER FOR ONE AND TWO FAMILY DWELLINGS

STD-02 CBC 2010

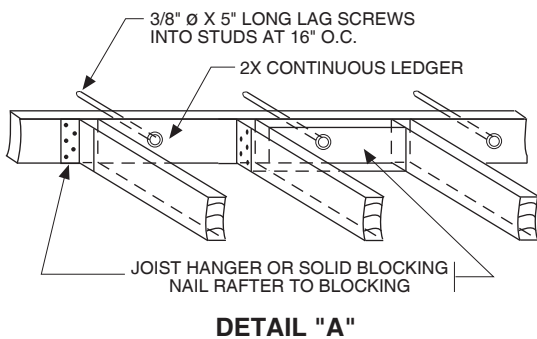
## IMPORTANT NOTE TO PERMIT APPLICANT:

Prior to expending time, money or effort in plan preparation, the applicant should contact the Planning Division at (714) 647-5804 regarding zoning, setbacks, landscape, aesthetics and other requirements. A fully dimensioned SITE PLAN shall be required on a separate 8 1/2" x 11" sheet of paper. Ask for handout on Residential Site Plan Information (**patio cover is not permitted within 5 feet of a property line**).



### FOOTINGS:

CBC APPENDIX I. A PATIO COVER MAY BE SUPPORTED ON A CONCRETE SLAB ON GRADE WITHOUT FOOTINGS, PROVIDED THE SLAB IS NO LESS THAN 3 1/2" THICK AND FURTHER PROVIDED THAT THE COLUMNS DO NOT SUPPORT LIVE AND DEAD LOADS IN AN EXCESS OF 750 POUNDS PER COLUMN.



### TABLE A USE:

1. DETERMINE ROOF SLOPE
2. SELECT RAFTER SPAN
3. SELECT RAFTER CENTER TO CENTER SPACING
4. SELECT RAFTER SIZE

**TABLE A**

RAFTER SIZE	ROOF RAFTER SPAN		
	SPACING C. TO C.	ROOF SLOPE < 4:12	ROOF SLOPE ≥ 4:12
2X4	12"	8'-0"	8'-6"
	16"	7'-0"	7'-6"
2X6	12"	13'-0"	13'-6"
	16"	11'-6"	12'-0"
2X8	12"	10'-0"	10'-6"
	16"	17'-0"	17'-6"
2X8	16"	15'-6"	16'-0"
	24"	13'-6"	14'-0"

**TABLE B**

SPAN OF RAFTER	POST SPACING / HEADER SIZE			
	4x4	4x6	4x8	4x10
10'-0"	5'-6"	9'-0"	11'-6"	15'-0"
12'-0"	5'-6"	8'-6"	11'-0"	14'-0"
14'-6"	5'-0"	8'-0"	10'-6"	13'-0"
16'-0"	-	7'-6"	10'-0"	12'-0"
18'-0"	-	7'-0"	9'-6"	11'-6"

**TABLE C**

SPAN OF RAFTER	POST SPACING / FOOTING SIZE			
	5'-6"/15" sq.	9'-0"/18" sq.	11'-6"/21" sq.	15'-0"/24" sq.
10'-0"	5'-6"/16" sq. <td>8'-6"/20" sq. <td>11'-0"/22" sq. <td>14'-0"/26" sq. </td></td></td>	8'-6"/20" sq. <td>11'-0"/22" sq. <td>14'-0"/26" sq. </td></td>	11'-0"/22" sq. <td>14'-0"/26" sq. </td>	14'-0"/26" sq.
12'-0"	5'-0"/16" sq. <td>8'-0"/20" sq. <td>10'-6"/24" sq. <td>13'-0"/26" sq. </td></td></td>	8'-0"/20" sq. <td>10'-6"/24" sq. <td>13'-0"/26" sq. </td></td>	10'-6"/24" sq. <td>13'-0"/26" sq. </td>	13'-0"/26" sq.
16'-0"	-	7'-6"/21" sq. <td>10'-0"/24" sq. <td>12'-0"/27" sq. </td></td>	10'-0"/24" sq. <td>12'-0"/27" sq. </td>	12'-0"/27" sq.
18'-0"	-	7'-0"/21" sq. <td>9'-6"/26" sq. <td>11'-6"/28" sq. </td></td>	9'-6"/26" sq. <td>11'-6"/28" sq. </td>	11'-6"/28" sq.

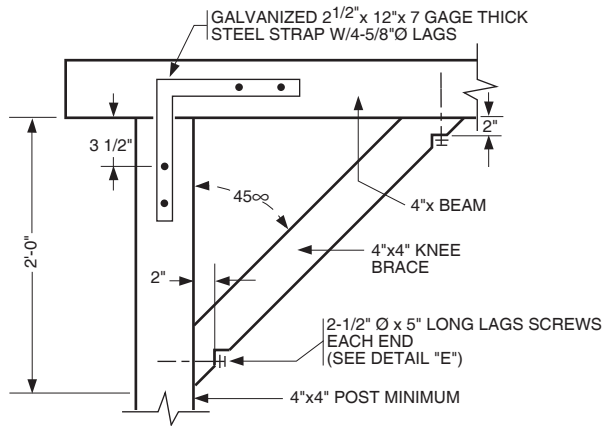
### TABLE B USE:

1. SELECT SPAN OF RAFTER
2. SELECT POST SPACING
3. SELECT HEADER SIZE

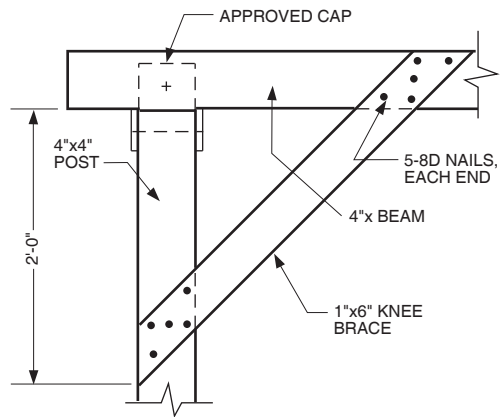
### TABLE C USE:

1. SELECT SPAN OF RAFTER
2. SELECT POST SPACING
3. SELECT FOOTING SIZE

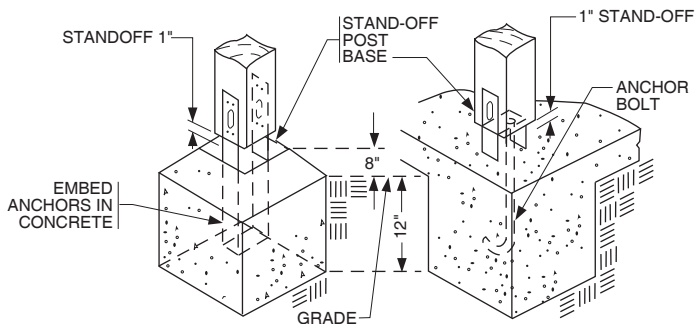
PATIO SIZE \_\_\_\_\_ x \_\_\_\_\_  
 POST SIZE \_\_\_\_\_ x \_\_\_\_\_  
 POST SPACING \_\_\_\_\_  
 HEADER SIZE \_\_\_\_\_ x \_\_\_\_\_  
 RAFTER SPAN \_\_\_\_\_  
 RAFTER SIZE & SPACING \_\_\_\_\_ x \_\_\_\_\_ @ \_\_\_\_\_" O.C.  
 ROOF PITCH \_\_\_\_\_  
 ROOFING MATERIAL \_\_\_\_\_  
 GRADE OF LUMBER:  D.F. NO.1  D.F. NO.2



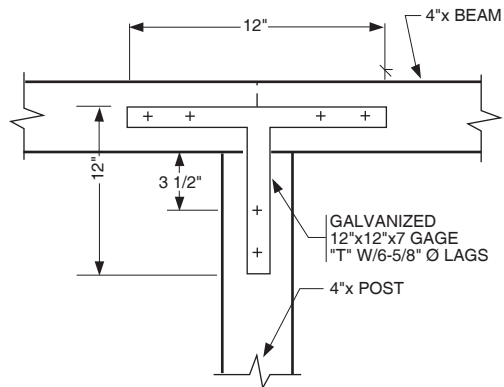
**DETAIL "B"**



**DETAIL "B" ALTERNATE**



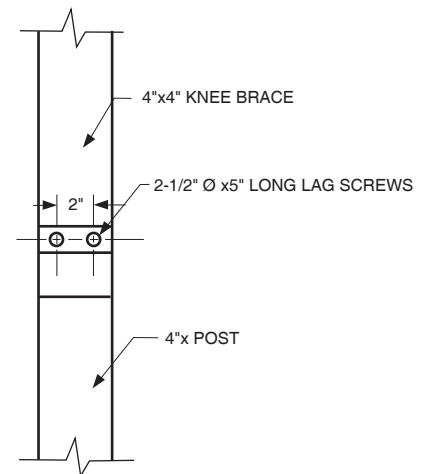
**DETAIL "C"**



**DETAIL "D"**

**NOTES:**

1. ALL MATERIALS: LUMBER, HARDWARE, PLYWOOD, ROOFING, ETC. SHALL BE NEW AND BEAR MANUFACTURER'S OR CERTIFIED AGENCY'S GRADE MARK.
2. ALL CONSTRUCTION SHALL CONFORM TO THE CALIFORNIA BUILDING CODE CURRENTLY IN EFFECT.
3. CONCRETE SLAB TO BE MINIMUM 3 1/2" THICK.
4. POSTS SHALL BE MINIMUM 4"x4".
5. BOTTOM OF POSTS SHALL BE ONE INCH (1") ABOVE SLAB.
6. ROOF SHEATHING SHALL BE:
  - a. 1/2" PLYWOOD, CDX, 5 PLY EXTERIOR GLUE, WITH INDEX 32/16, T & G STRUCTURAL I, WITH 10 d AT 6" O/C AT SUPPORTED ENDS, AND 12" O/C ALONG INTERMEDIATE FRAMING MEMBERS, OR
  - b. 1" BOARD SPAN 32"; 2" SOLID T&G SPAN 8'-0"; 2"x2" SELF-SPACED SPAN 6'-0".
7. ROOFING SHALL BE MIN. CLASS "C" ROOF COVERING (CBC TABLE 1505.1) OF:
  - a. WOOD SHAKES: 4/12 PITCH
  - b. WOOD SHINGLES: 3/12 PITCH
  - c. BUILT-UP ROOF SLOPE TO DRAIN (MINIMUM 1/4"/FT.)
  - d. CLAY AND CONCRETE ROOF TILES INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
8. MAXIMUM HEIGHT FOR A PATIO COVER IS TWELVE FEET.
9. PATIO COVER SHALL BE USED ONLY FOR RECREATIONAL OUTDOOR LIVING PURPOSE AND NOT AS CARPORT, GARAGE, STORAGE ROOM OR HABITABLE ROOM.
10. ENCLOSURE WALLS MAY HAVE ANY CONFIGURATION, PROVIDED THE OPEN AREA OF THE LONGER WALL AND ONE ADDITIONAL WALL IS EQUAL TO AT LEAST SIXTY-FIVE PERCENT OF THE AREA BELOW A MINIMUM OF 6'-8" OF EACH WALL, MEASURED FROM THE FLOOR.
11. OPENINGS MAY BE ENCLOSED WITH INSECT SCREENING OR PLASTIC THAT IS READILY REMOVABLE, TRANSLUCENT, OR TRANSPARENT PLASTIC NOT MORE THAN 1/8 INCH IN THICKNESS.
12. EMERGENCY EGRESS OR RESCUE WINDOWS FROM SLEEPING ROOMS MAY OPEN INTO AN AREA OF AN UNENCLOSED PATIO COVER.
13. PATIO COVER MUST BE AT LEAST 5 FEET FROM PROPERTY LINES.



**DETAIL "E"**

PERSON RESPONSIBLE FOR DESIGN AND CONSTRUCTION OF PATIO COVER:

PRINT NAME

SIGNATURE

DATE