

Community Development Department 14000 City Center Dr., Chino Hills, CA 91709 (909) 364-2740 Fax (909) 364-2795 www.chinohills.org

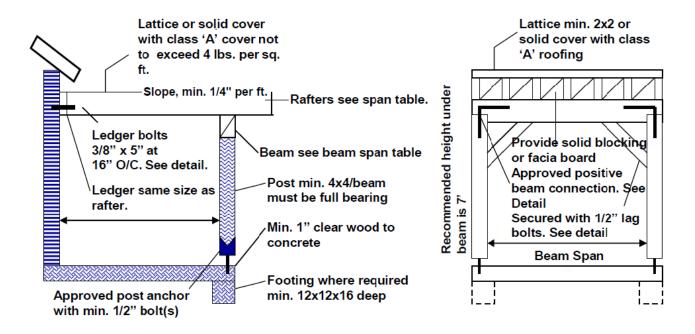
# STANDARD DETAILS FOR TILE ROOF PATIO COVERS

Pre-engineered details for a patio cover that is attached to a residential structure.

In order to use this pre-engineered standard <u>no deviation</u> from this handout will be allowed. For example but not limited to cantilevered second floors, structure or window pop-outs, or ledgers extended beyond the structure.

Provide a plot plan. See handout for "How to prepare a residential plot plan".

SUBMITTAL REQUIREMENTS
Completed Building Permit Application
☐ Three (3) copies of plans prepared to a standard scale
☐ Complete sets of plans consist of the following:
□ Name of Property owner
<ul> <li>Assessor parcel number, tract number, lot number</li> </ul>
☐ All property lines with dimensions
☐ Drawn to scale
☐ All structures, provide setback dimensions to all property lines (front, sides and rear)
Identify and show easements, if any
Signed Carbon Monoxide/Smoke Detector Form (must be signed by the HOMEOWNER, not the
contractor)
☐ Calculate the tributary area of the patio cover in order to circle the proper footing size on the following
pages
☐ Circle items and fill in the distances on the following pages



	Example 10 x 20 patio tributary area to end post = 1/2 length from house to beam and 1/2 length from post to post or 5 x 5 = 25 no footing middle post 1/2 house and 1/2 each post or 5 x (5 + 5)= 50 no footing required	
	Middle post L/2 from each post or L/2 + L/2 Tributary area to post see footing table	L/2
L/2	L/2 / L/2	
← L	$\longrightarrow$	L

### Footing Table

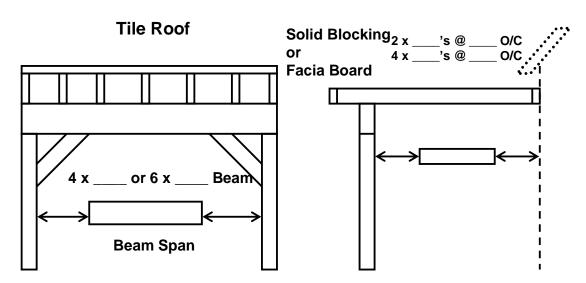
Trib area ------footing size 0 to 52 -----none req. 52 to 85 -----12 x 12 x 16 85 to 116 -----14 x 14 x 16 116 to 152 -----16 x 16 x 16 152 to 193 -----18 x 18 x 18

#### Notes:

- Post anchors have to be embedded into footing concrete with post support 1 inch above patio slab.
- Ledger board shall be attached to the house with minimum 3/8" x 5" lag bolts staggered -- spaced 16" on center.
- Patio rafters shall be attached to ledger board with approved joist hangers. Block joists at each end.
- 4. No attachment shall be made to masonry/brick fireplaces chase or to truss system.
- Post/beam connection shall be made by mechanical means. All holes filled through bolted and/or nailed as applicable.
- 6. All work shall conform to the 2010 California Residential Code.

Although not required, recommended welded wire fabric be placed in patio slabs in expansive soils area.

## **POST AND BEAM**

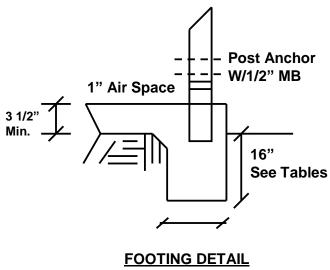


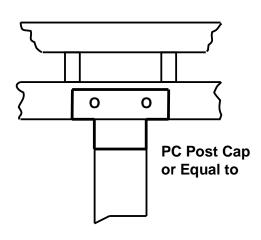
## **BEAM SPAN TABLE**

4 X Beams #2 DF 6 x Beams #1 DF

BEAM SPAN			RAFTER SPAN					
	10'	12'	14'	16'	18'	20'	22'	24'
4'	4 X 4	4 X 4	4 X 4	4 X 4	4 X 4	4 X 4	4 X 4	4 X 4
6'	4 X 4	4 X 6	4 X 6	4 X 6	4 X 6	4 X 6	4 X 6	4 X 8
8'	4 X 6	4 X 6	4 X 8	4 X 8	4 X 8	4 X 8	4 X 8	4 X 10
10'	4 X 8	4 X 8	4 X 8	4 X 10	4 X 10	4 X 10	4 X 10	4 X 12
12'	4 X 8	4 X 10	4 X 10	4 X 10	4 X 12	4 X 12	4 X 12	4 X 12
14'	4 X 8	4 X 10	4 X 12	4 X 12	4 X 14	4 X 14	4 X 14	4 X 14
16'	4 X 12	4 X 12	4 X 14	4 X 14	4 X 14	4 X 16	4 X 16	
18'	4 X 14	4 X 14	4 X 16	4 X 16	4 X 16	4 X 16	6 X 14	6 X 14
20'	4 X 14	4 X 14	4 X 16	4 X 16	6 X 14	6 X 14	6 X 16	6 X 16

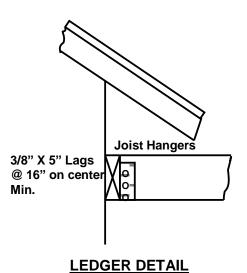
<b>RAFTER</b>	SPAN	١
	16"	o/c13'9"
2 X 6	24"	o/c11'3"
	12"	o/c18'9"
2 X 8		o/c16'3"
	24"	o/c13'3"
	401	-/- 001011
- 1/ /-	12"	o/c23'0"
2 X 10	16"	o/c19'11"
	24"	o/c13'3"
	12"	o/c14'5"
	16"	o/c12'6"
	24"	o/c10'3"
4 X 4	32"	o/c8'1"
	36"	o/c7'5"
	48"	o/c6'6"
	12"	o/c22'3"
	16"	o/c19'5"
	24"	o/c15'7"
4 X 6	32"	o/c12'7"
	36"	o/c11'10"
	48"	o/c10'2"



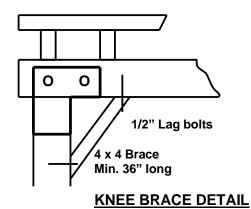


EPC Post Cap or Equal to

**POST TO BEAM** 



**POST TO BEAM** 



KNEE BRACES ARE REQUIRED AT <u>ALL</u> POSTS!