

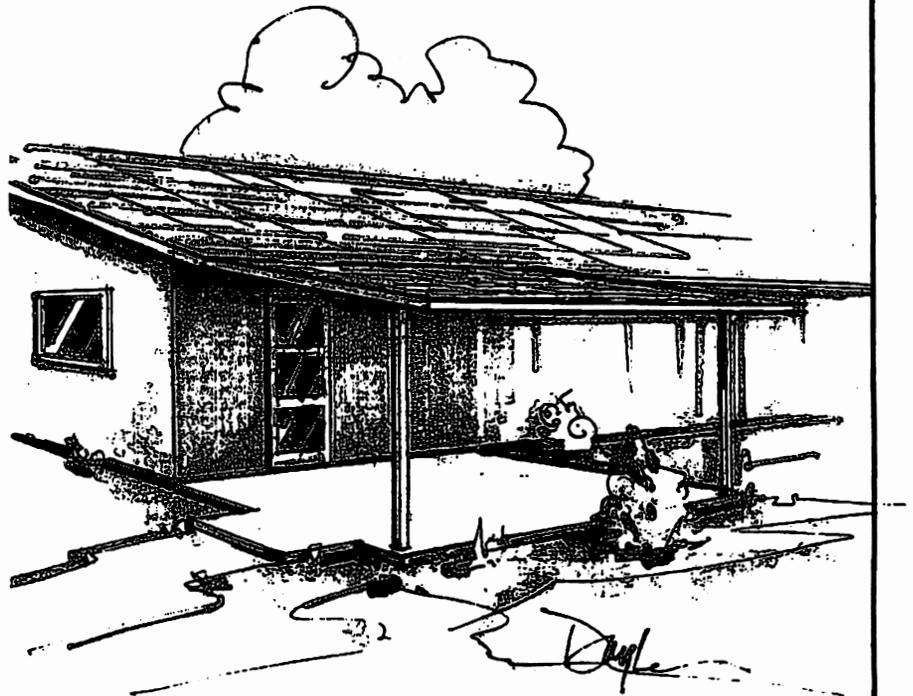
HUMBOLDT COUNTY
CITY OF WINNEMUCCA
BUILDING DEPARTMENTS

Single Family Residential Patio Covers & Carports

How to Use this Guide

1. Complete this Building Guide by filling in the blanks on page two, and indicating which construction details will be used. If patio cover/carport is being hipped back on to existing building provide a detail of the hip construction.

2. Provide a Plot Plan (site plan) showing dimensions of the patio cover/carport and the distance to existing buildings/structures on the property and the distance to existing property lines.



This handout was developed as a basic plan submittal under the 2012 International Residential Code. It is not intended to cover all circumstances.

Single Family Residential Patio Covers & Carports

Directions

Address: _____

1. Fill in the blanks with dimensions and materials which will be used to build the structure. Please print legibly.
2. Indicate in the check boxes which details from page 3 will be used. The patio cover/carport shall be located no closer that 5'0" from the property lines. The carport shall be open on at least 2 sides to conform to building code requirements. Zoning approval is required.
3. Roofing to be installed per manufacturer's instructions, including low slope application and required inspections made.

Roof covering _____
(example: Class A 3 tab shingles)

Underlayment _____
(example: 15# felt with 18" laps)

Size and Amount of Lags _____
(example: Two 1/2"x 4 1/2" lags @ 16" O.C.)

Sheathing _____
(example: 1/2" exterior plywood)

12 pitch _____

2x _____ rafters spaced _____ " O.C.
(example: 2 x 8 rafters spaced 24" O.C.)

Patio Section

Existing building

Span _____

Maximum rise 7 3/4" at top of door threshold

Slope _____

Concrete Slab

Overhang _____

Note: Walls, posts, and overhang closer than 5' to be 1 hr. rated

No closer than 2 feet to property line

Beam splices to occur over posts with 1 1/2" bearing

Check one
 Detail A
 Alternate A
(see page 3)

Check one
 Detail B
(see page 3)

Check one
 Detail C
 Alternate
(see page 3)

_____ "x _____" beam
(example: (2) 2"x10")

Span _____
(example: 12' 0")

Siding _____
(for Alternate B only)

_____ "x _____" posts spaced _____ apart
(example: 4"x4" spaced 6')

6'-8" minimum

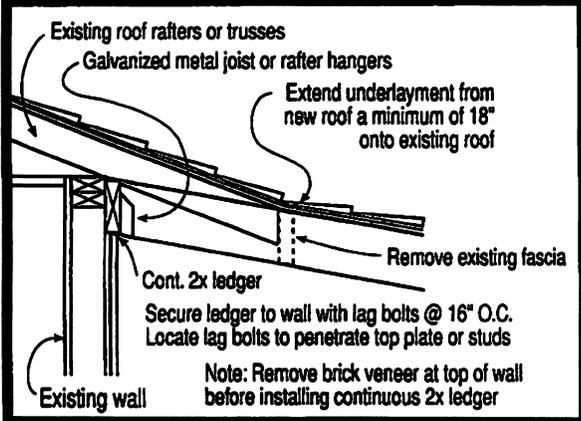
Footing _____ "x _____"

Manufactured Homes: Post are required against the MH unless a full perimeter foundation is provided. The patio cover cannot hip back on to the MH unless the MH has a 30 lb roof load.

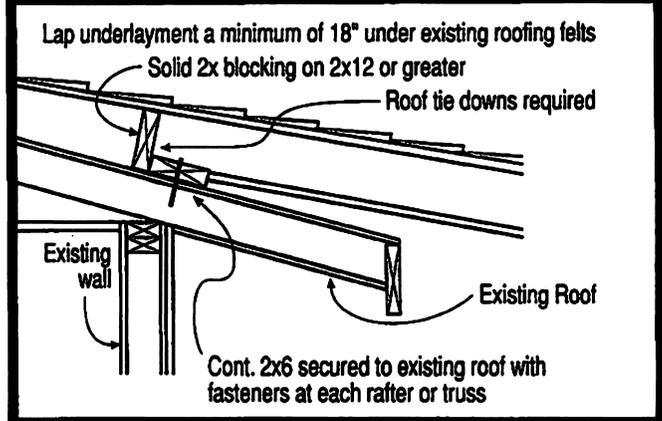
Width _____ Length _____
Eave Height _____
Height under Header _____

Single Family Residential Patio Covers & Carports

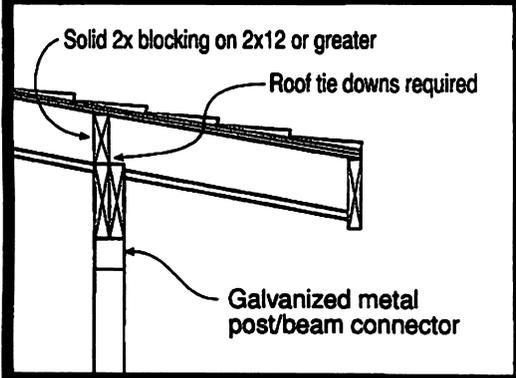
Detail A



Alternate Detail A



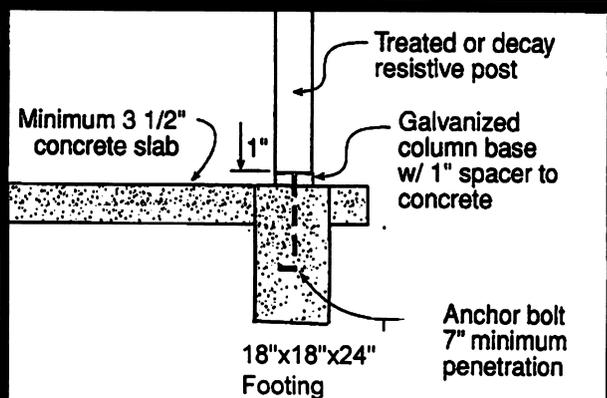
Detail B



Note: Rafters shall not be hung off existing fascia/ truss tails. They shall be installed:

1. by the use of a ledger
2. installed on the top of the existing wall
3. post & header against existing wall.

Detail C



An alternative to the footing is PT post buried 3'
Patio - Min. 4x4 post
Carport - Min. 6x6 post

HEADER TABLE FOR ROOF SPANS Up to 15'-FOR PATIO COVER ONLY

| Length of Span | Load Bearing Header Size | | Non-Load Bearing Header Size | |
|----------------|--------------------------|--------|------------------------------|-------|
| | | | | |
| 4' or less | 4"x4" | ***** | 4"x4" | ***** |
| 4' to 6' | 4"x6" | ***** | 4"x4" | ***** |
| 6' to 8' | 4"x8" | 6"x6" | 4"x6" | 6"x6" |
| 8' to 10' | 4"x10" | 6"x8" | 4"x6" | 6"x6" |
| 10' to 12' | 4"x10" | 6"x8" | 4"x8" | 6"x6" |
| 12' to 14' | 4"x12" | 6"x10" | 4"x8" | 6"x6" |
| 14' to 16' | 4"x14" | 6"x12" | 4"x10" | 6"x8" |

LOAD BEARING EXTERIOR HEADERS-ROOF & CEILING ONLY (IRC TABLE R502.5(1))

| BUILDING WIDTH | | | | | | |
|----------------|-------|-----------------|-------|-----------------|--------|-----------------|
| Size | 20' | | 28' | | 36' | |
| | Span | # of Jack Studs | Span | # of Jack Studs | Span | # of Jack Studs |
| 2-2x4 | 3'6" | 1 | 3'2" | 1 | 2'10" | 1 |
| 2-2x6 | 5'5" | 1 | 4'8" | 1 | 4'2" | 1 |
| 2-2x8 | 6'10" | 1 | 5'11" | 2 | 5'4" | 2 |
| 2-2x10 | 8'5" | 2 | 7'3" | 2 | 6'6" | 2 |
| 2-2x12 | 9'9" | 2 | 8'5" | 2 | 7'6" | 2 |
| 2-2x8 | 8'4" | 1 | 7'5" | 2 | 6'8" | 2 |
| 3-2x10 | 10'6" | 1 | 9'1" | 2 | 8'2" | 2 |
| 3-2x12 | 12'2" | 2 | 10'7" | 2 | 9'5" | 2 |
| 4-2x8 | 9'2" | 1 | 8'4" | 1 | 7'8" | 1 |
| 4-2x10 | 11'8" | 1 | 10'6" | 1 | 9'5" | 2 |
| 4-2x12 | 14'1' | 1 | 12'2" | 2 | 10'11" | 2 |

Rafter Spans for Douglas Fir-Larch #2 – Ceiling not attached to rafters (R802.5.1(1))

| Rafter Spacing | 2x4 | 2x6 | 2x8 | 2x10 | 2x12 |
|----------------|--------|-------|--------|-------|-------|
| 12" o.c. | 10'10" | 16'7" | 21' | 25'8" | * |
| 16" o.c. | 9'10" | 14'4" | 18'2" | 22'3" | 25'9" |
| 19.2 o.c. | 8'11" | 13'1" | 16'7" | 20'3" | 23'6" |
| 24" o.c. | 8'0" | 11'9" | 14'10" | 18'2" | 21'0" |

*Span exceeds 26 feet in length

Rafter Spans for Douglas Fir-Larch #2 – Ceiling attached to rafters (R802.5.1(2))

| Rafter Spacing | 2x4 | 2x6 | 2x8 | 2x10 | 2x12 |
|----------------|-------|-------|--------|-------|-------|
| 12" o.c. | 9'10" | 15'6" | 20'5" | 25'8" | * |
| 16" o.c. | 8'11" | 14'1" | 18'2" | 22'3" | 25'9" |
| 19.2 o.c. | 8'5" | 13'1" | 16'7" | 20'3" | 23'6" |
| 24" o.c. | 7'10" | 11'9" | 14'10" | 18'2" | 21' |

*Span exceeds 26 feet in length

Rafter Ties:

Where ceiling joists are not parallel to rafters, the rafters shall be tied to 2"x4" minimum size rafter ties and installed in accordance with the connection requirements in Table R802.5.1(9) or connections of equivalent capacities will be provided. (R802.3.1)

Collar Ties:

Collar ties or ridge straps to resist wind uplift shall be connected in the upper third of the attic space in accordance with Table R602.3(1). Collar ties shall be a minimum of 1"x4", spaced not more than 4 feet on center. (R802.3.1.)