Tempe

Development Services Department
31 E 5th St.
Tempe, Arizona 85281

480-350-8341
480-350-8677 (fax)
www.tempe.gov/ds/

Residential

Patio Cover

Addition

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RESIDENTIAL PATIO COVER ADDITION

Building Permit Required: The Tempe Administrative Code as adopted by the City of Tempe requires that a building permit be obtained before erecting a building addition. This applies to permanent as well as temporary structures. The requirements for each installation will vary depending upon the *size of the structure, the materials of construction, the proposed location on property and the zoning district of the property.

Building Permit Requirements:

Permit Application
Completed applications must include:

[ ] Project name and address
[ ] Applicant's name and phone number
[ ] Description of work
[ ] Proposed "use" of building
[ ] Estimated/actual cost of project
[ ] Applicant's signature

Construction Plans (See examples)
Two (2) sets provided by applicant must include:
Examples with fill-in information maybe used as some of the required plan sheets.

[ ] Site Plan (dimensioned) 8-1/2" x 11" copy: Show the proposed location, size and setbacks of the proposed patio cover in reference to existing site specifics, i.e., property lines, existing residence, pool, etc.

[ ] Foundation plan (dimensioned): Show overall patio cover building size, footings in plan view for all columns and provide details of depth, width, reinforcing bar, etc..

[ ] Sections and Details: Show all materials of construction and all structural details and connections; footing size and depth; column to footing connection (anchor bolts, expansion anchors, column anchors, hold-downs, etc.); column to beam connection/details; rafter/joist to beam connections/details; column/beam sizes and material types; roofing material; and any ceiling covering materials (drywall, wood paneling, etc.).

[ ] Roof framing Plan (dimensioned): Show roof framing system/roof slope, total developed height of proposed building and size/type of headers/lintels at openings. (Note: if "trusses" are intended to be used for the roof framing system, two copies of the truss calculations from an approved fabricator and sealed by an AZ. licensed engineer must be included in the set at the time of permit issuance.)

An Arizona registered architect or engineer must prepare the plans for:

a. Basements
b. Beam spans over 20 feet in length
c. Headers over large openings
d. 2nd story additions
e. Rafters and/or joists that do not comply with the IRC span tables
f. Manufactured roof or floor trusses
g. Other structural components as determined by the plan reviewer

Plans requiring a structural plan review are not eligible for "Over the Counter" review and therefore must be submitted and queued into our standard review process.

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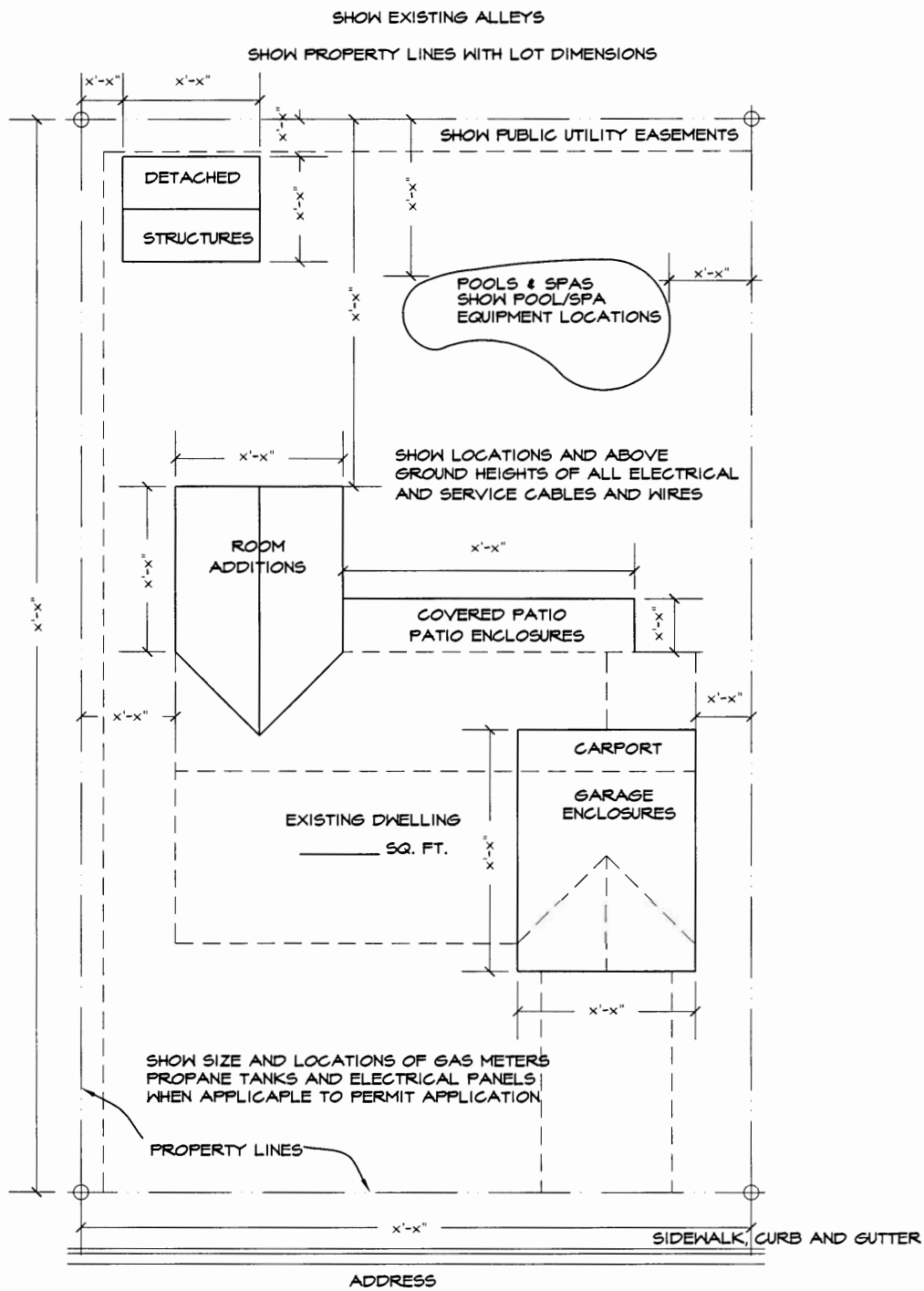
Zoning Ordinance Requirements:

In addition to the Building Code requirements regulating materials/construction, height and location on the property, The City of Tempe Zoning and Development Code also regulates the height and location on the property for residential additions. When there is a conflict between the two regulating bodies, the more restrictive of the two shall govern. Please be advised that each type of lot (corner, interior or through) has its own setback requirements. The Zoning and Development Code, Part 4, Development Standards, Chapter 2, Tables 4-202A, 4-202B and 4-202C provides the setback and maximum lot coverage zoning district.

A use permit may be required for a patio cover which may encroach into the required building setbacks for your Residential District.

If required, a Use Permit must be obtained through the Development Services/Planning Division prior to the issuance of a permit for the construction of a patio cover addition. Contact the Planning Division at 480-350-8331 for Use Permit application instructions and information.



- GIVE DIMENSIONS REPRESENTED BY x'-x" WHEN APPLICABLE TO PERMIT APPLICATION
- SHOW SIZE AND LOCATIONS OF ALL EXISTING STRUCTURES, POOLS AND SPAS
- SHOW SIZE AND LOCATION OF OFF STREET PARKING WHEN GARAGE/ CARPORT IS ENCLOSED INTO LIVABLE AREA

NORTH

SCALE _____" = _____'

For Reference Only

Residential Structures (Example)

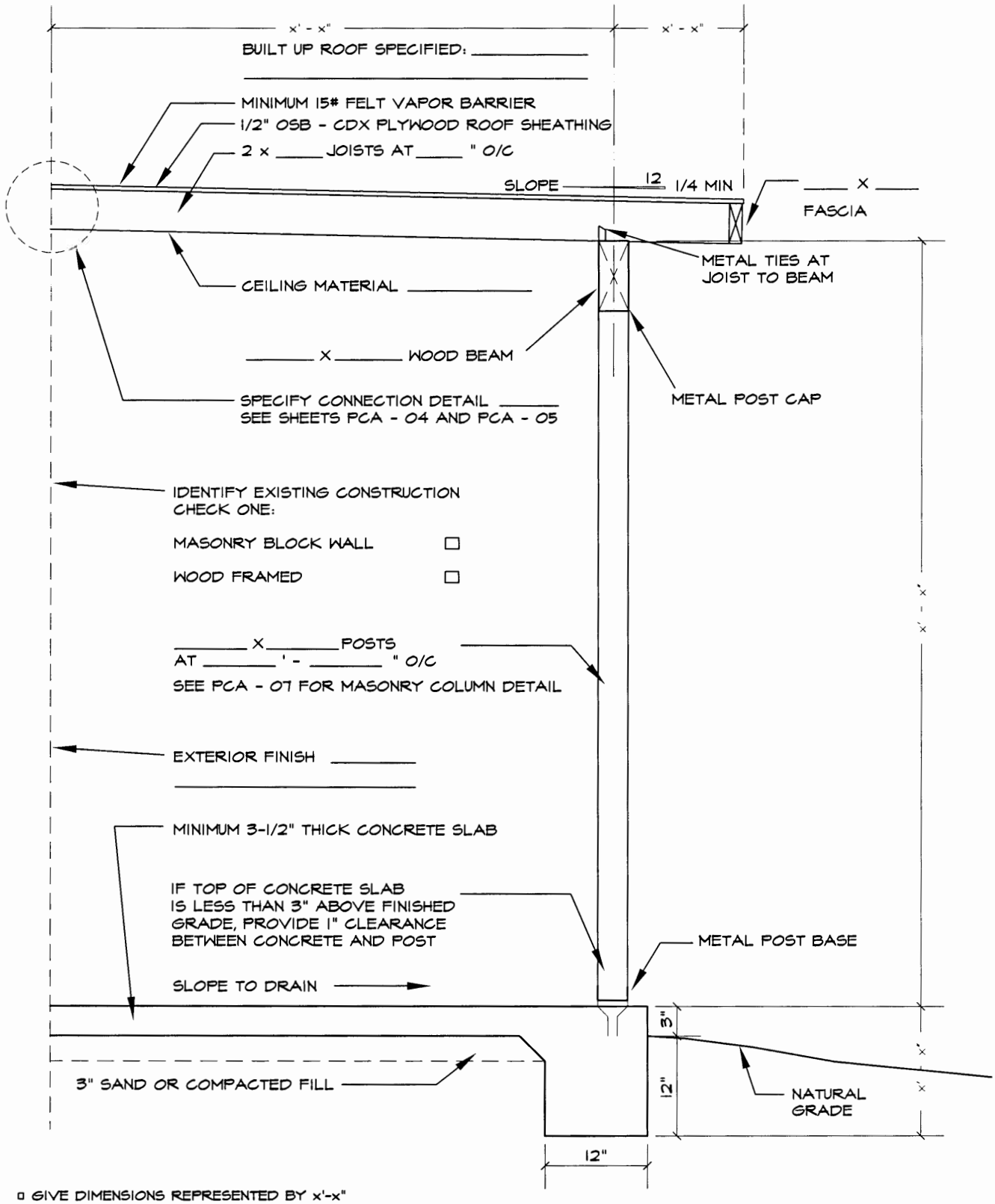
Title: Site Plan

Sheet No. RES - 01

NORTH

SCALE _____" = _____'

Residential Structures	Title Site Plan
	Sheet No. RES - 02



- GIVE DIMENSIONS REPRESENTED BY x'-x"
- ALL METAL CONNECTORS SHALL BE ICC LISTED - NO STRAPS PERMITTED
- SEE SHEET RES - 01 FOR SITE PLAN REQUIREMENTS WITH PERMIT APPLICATION

For Reference Only

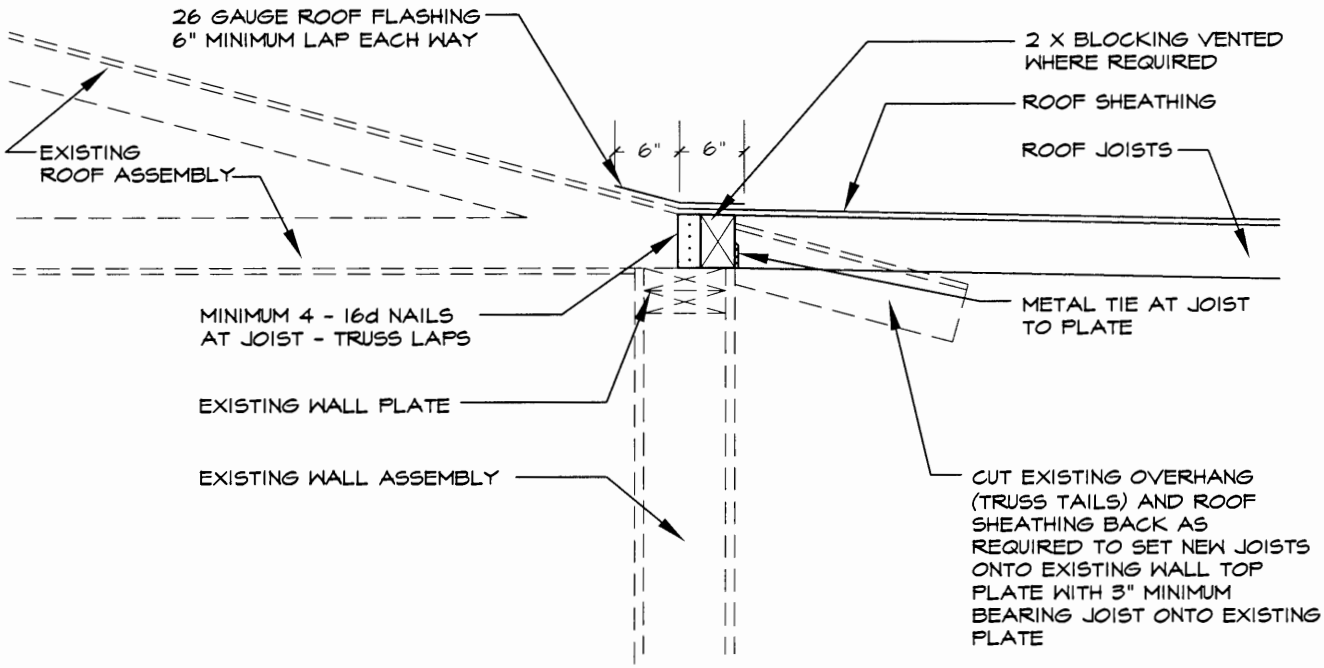
Patio Cover Addition

Title

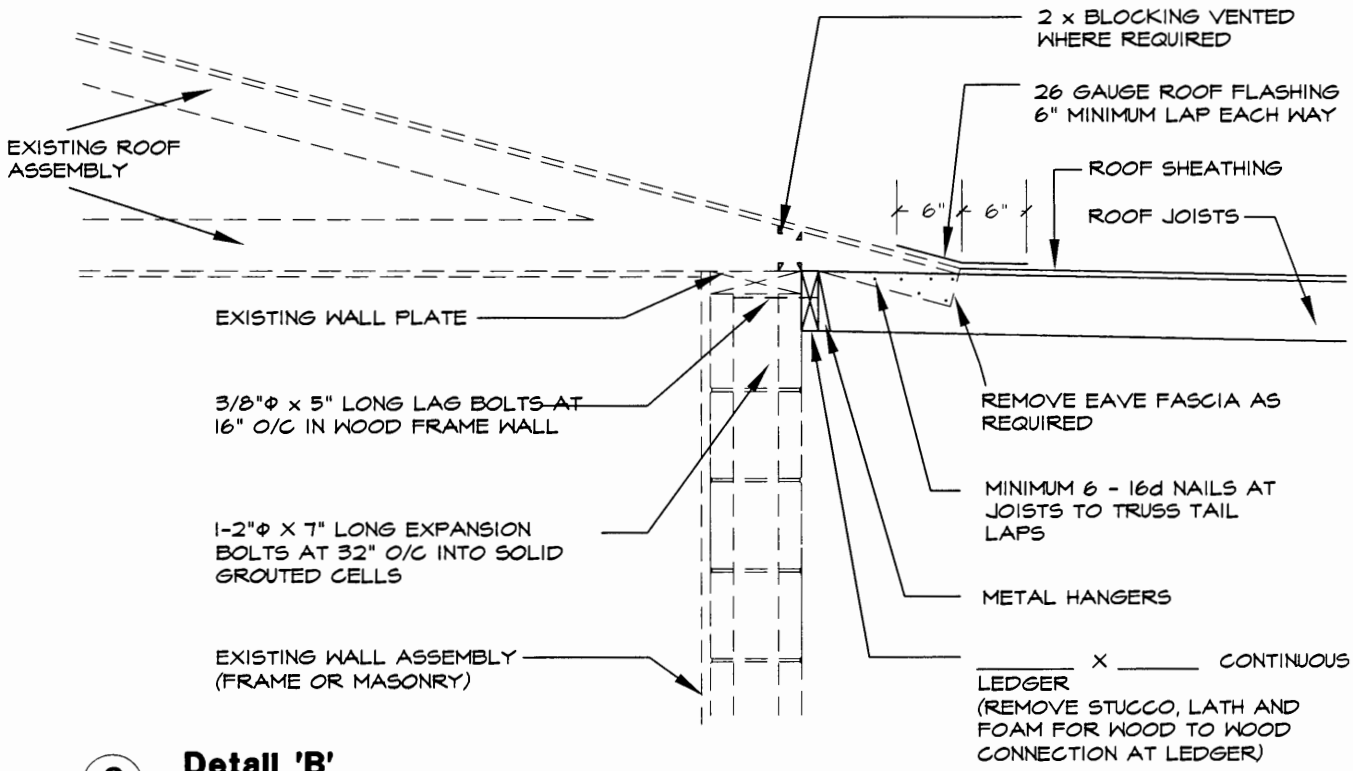
Covered Patio Details

Sheet No.

PCA - 03



1 **Detail 'A'**



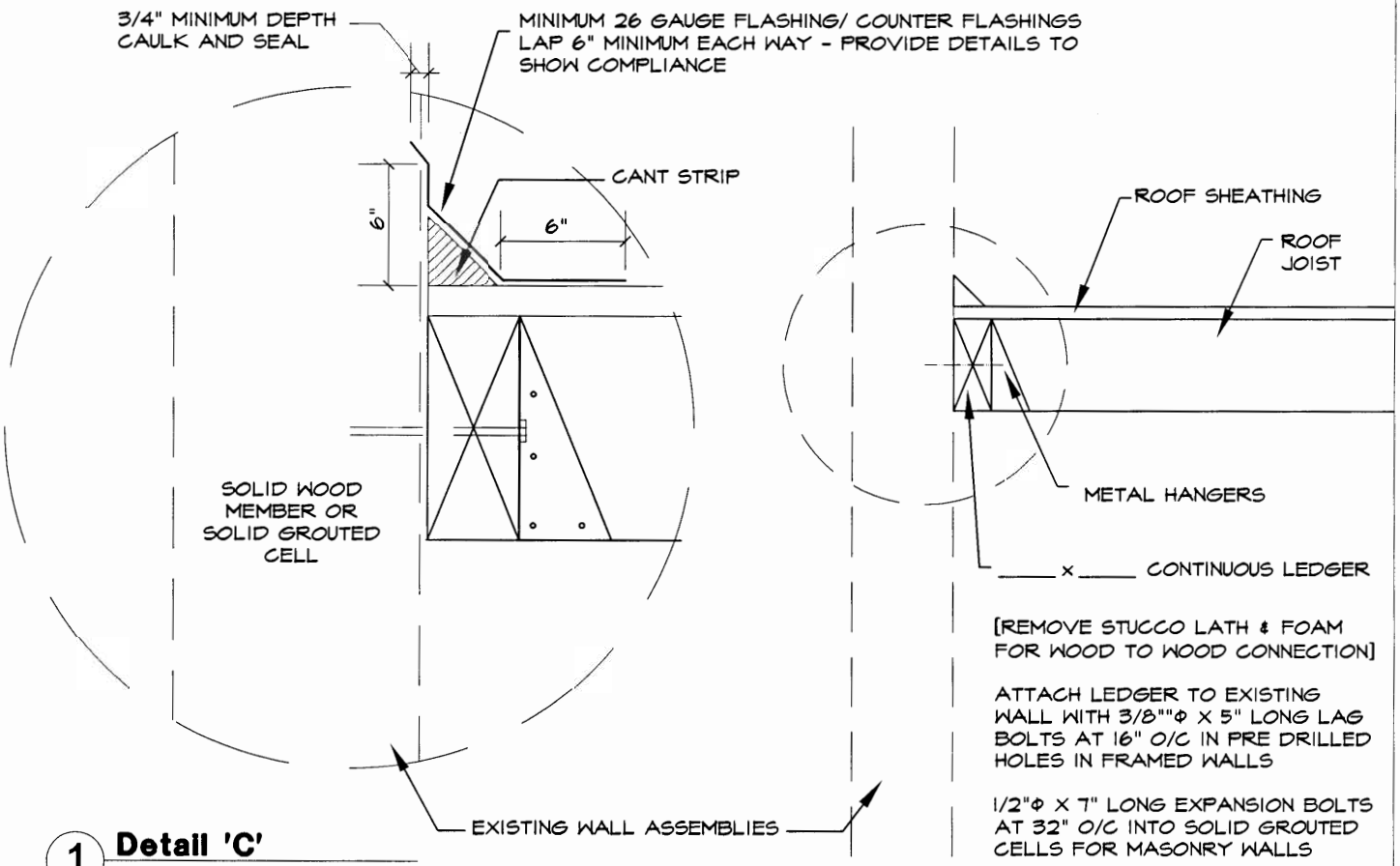
2 **Detail 'B'**

For Reference Only

Patio Cover Addition

Title
Joist to Wall Connections

Sheet No.
PCA - 04



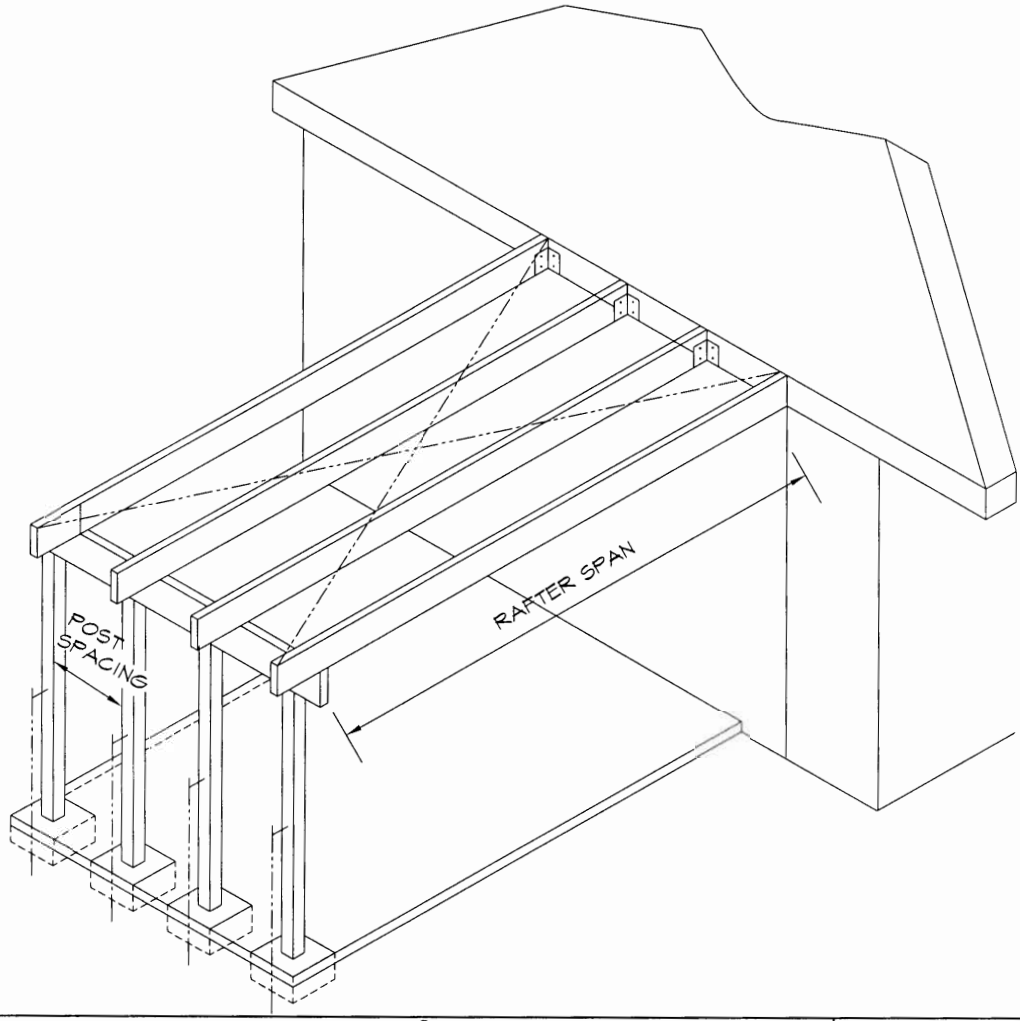
1 Detail 'C'
at gable ends - two story applications

For Reference Only

Covered Patio Details

Title
Joist Connections

Sheet No.
PCA - 05



O.C. POST SPACING (FT)	MINIMUM BEAM SIZES[a] (INCHES) RAFTER SPANS (FT)							
	6	8	10	12	14	16	18	20
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 6	4 x 8	4 x 8	4 x 8	4 x 10	4 x 10
10	4 x 6	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 14

a. Table is based on values for Douglas Fir/ Larch 2 or better; a roof live load of 20 psf L/Δ = 240 and a dead load of 20psf and mineral surfaced asphalt rolled roofing

RAFTER SPANS (FT)	MINIMUM RAFTER SIZES[a] (INCHES) RAFTER SPACING (INCHES ON CENTER)		
	12	16	24
10	2 x 6	2 x 6	2 x 6
11	2 x 6	2 x 6	2 x 8
12	2 x 6	2 x 6	2 x 8
13	2 x 6	2 x 8	2 x 10
14	2 x 6	2 x 8	2 x 10
15	2 x 8	2 x 8	2 x 10
16	2 x 8	2 x 10	2 x 12
17	2 x 8	2 x 10	2 x 12
18	2 x 10	2 x 10	2 x 12[b]
19	2 x 10	2 x 12	2 x 12[b]
20	2 x 10	2 x 12	2 x 12[b]

a. Table is based on values for Douglas Fir/ Larch 2 or better; a roof live load of 20 psf L/Δ = 240 and a dead load of 20psf and mineral surfaced asphalt rolled roofing

b. Douglas fir - larch SS or Southern pine SS is required for this span

For Reference Only

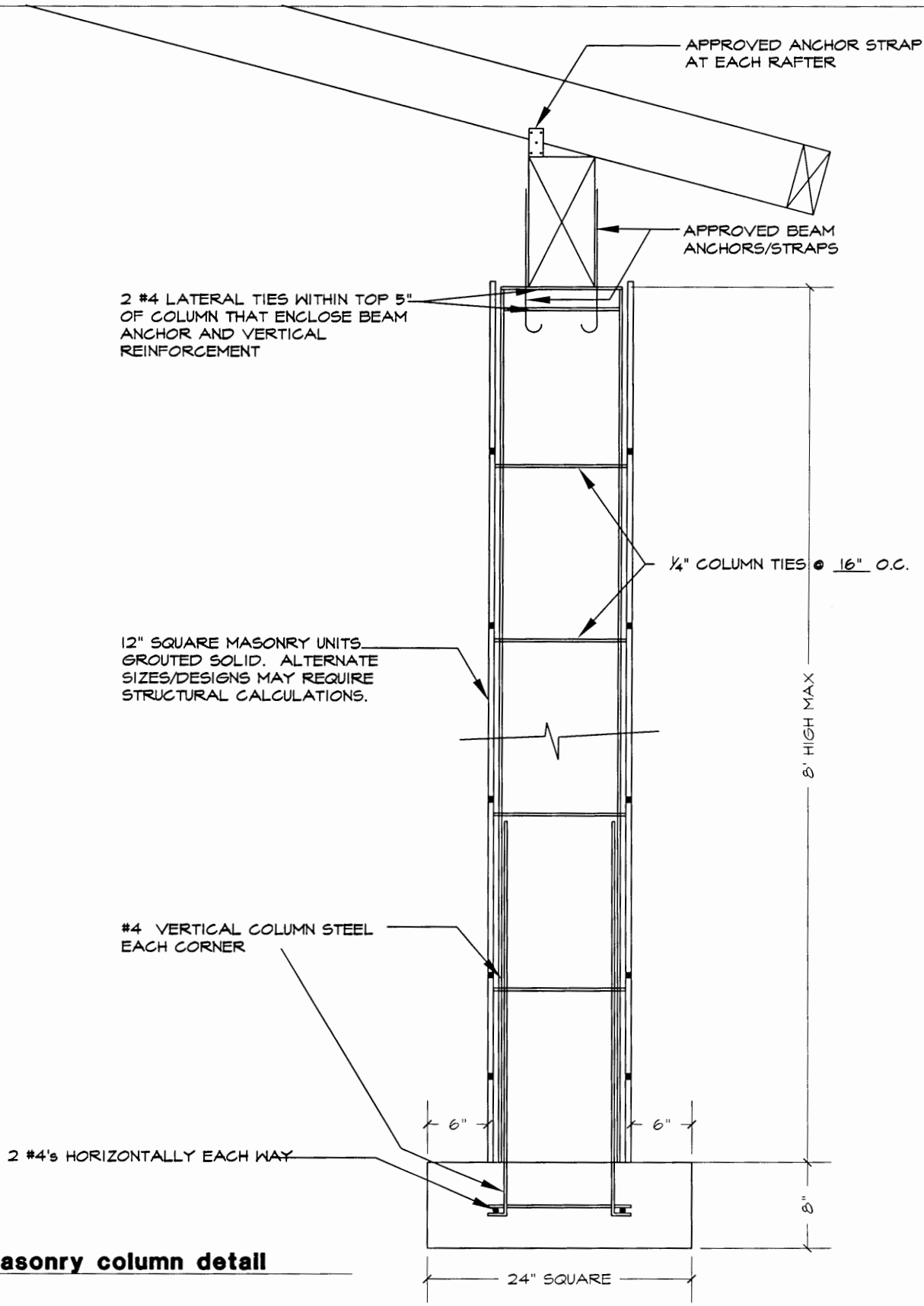
Patio Cover Addition

Title

Rafter & Beam Sizes

Sheet No.

PCA - 06



1 **Masonry column detail**

For Reference Only

Patio Cover Addition

Title
Masonry column detail

Sheet No.
PCA - 07