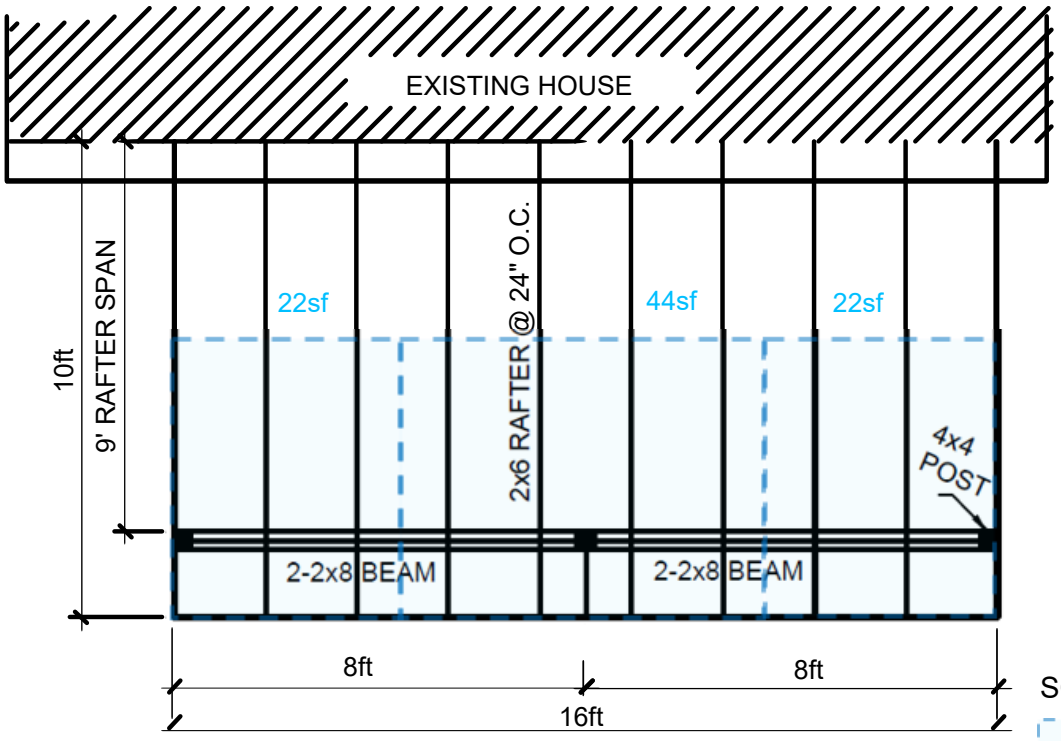
Planning, Development & Transportation Services
Community Development & Neighborhood Services
281 North College Avenue P.O. Box 580 Fort Collins, CO 80522.0580
970.416.2740 fcgov.com/building

Revised 6/23/2020

Residential Patio Cover Guide

Floor Plan



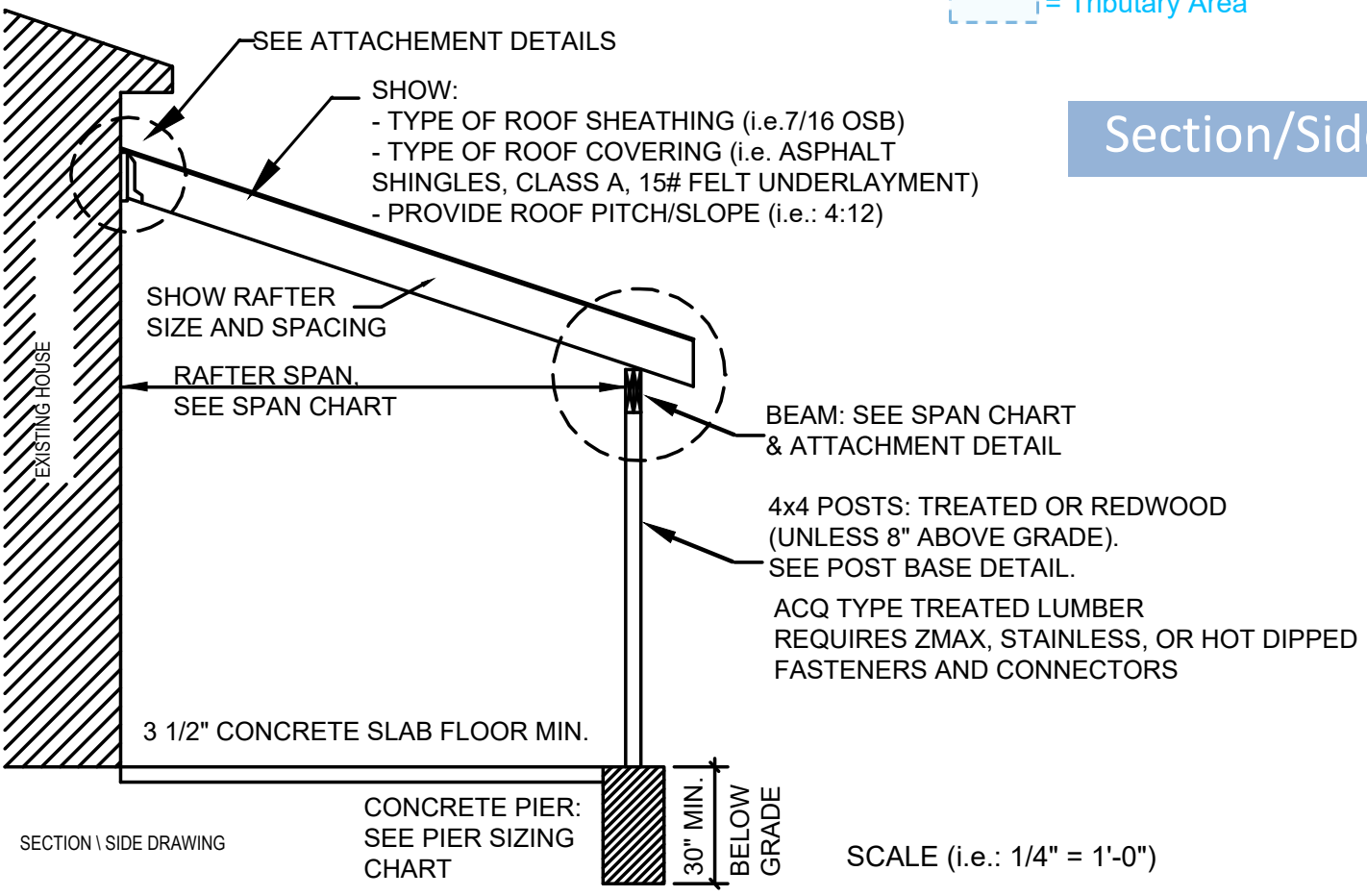
Structural Engineering is required for:

1. Patio cover supported by or attached directly to the top of a deck.
2. Ledger attached to a cantilever/ overhang on the house.
3. Ledger attached to rafter tails/ fascia board of existing house roof.
4. Metal or Plastic patio structures

SCALE (i.e.: 1/4" = 1'-0")

= Tributary Area

Section/Side



SCALE (i.e.: 1/4" = 1'-0")

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Beam Chart

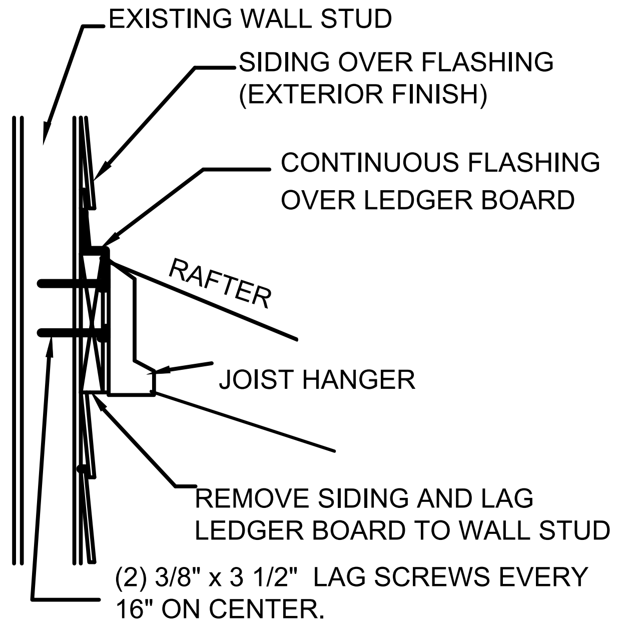
PATIO COVER - BEAM SPANS				
Max Beam SPAN (length of beam in feet & inches based on rafter span) 30psf live, IRC table R602.7(3)				
BEAM SIZE	**Rafter Span (in feet)**			
	8	**10**	**12**	**14**
2-2X6	7-6	6-10	6-3	5-8
2-2X8	10-1	9-3	8-5	7-7
2-2X10	12-4	11-4	10-4	9-4
2-2X12	14-4	13-2	12	10-10

Rafter Chart

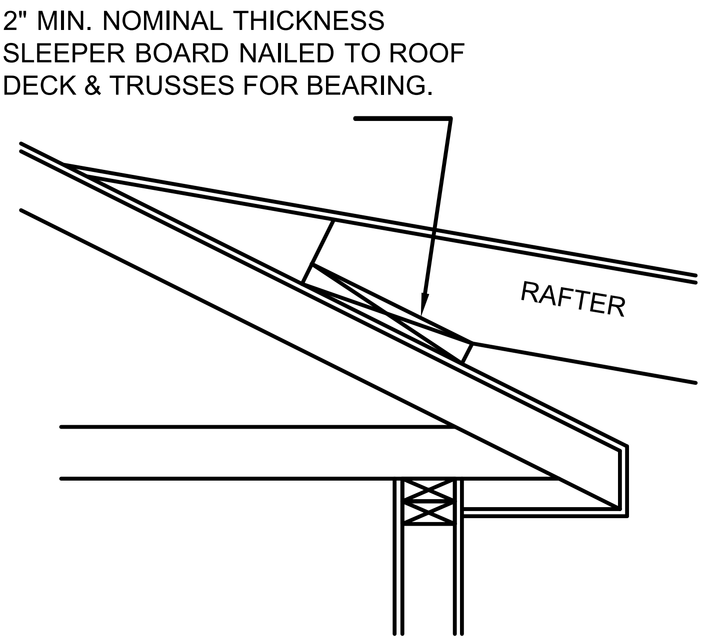
PATIO COVER - RAFTER SPANS				
Max RAFTER SPAN (length of rafter in feet & inches based on spacing) HEM FIR #2, 30psf live, 10psf dead, L-240, Ceiling attached				
RAFTER SIZE	**Rafter Spacing (center to center - Inches)**			
	12"	**16"**	**19.2"**	**24"**
2X4	8-0	7-3	6-10	6-4
2X6	12-7	11-5	10-9	9-7
2X8	16-7	14-11	13-7	12-2
2X10	21-0	18-2	16-7	14-10
2X12	24-4	21-1	19-3	17-3

Pier Chart

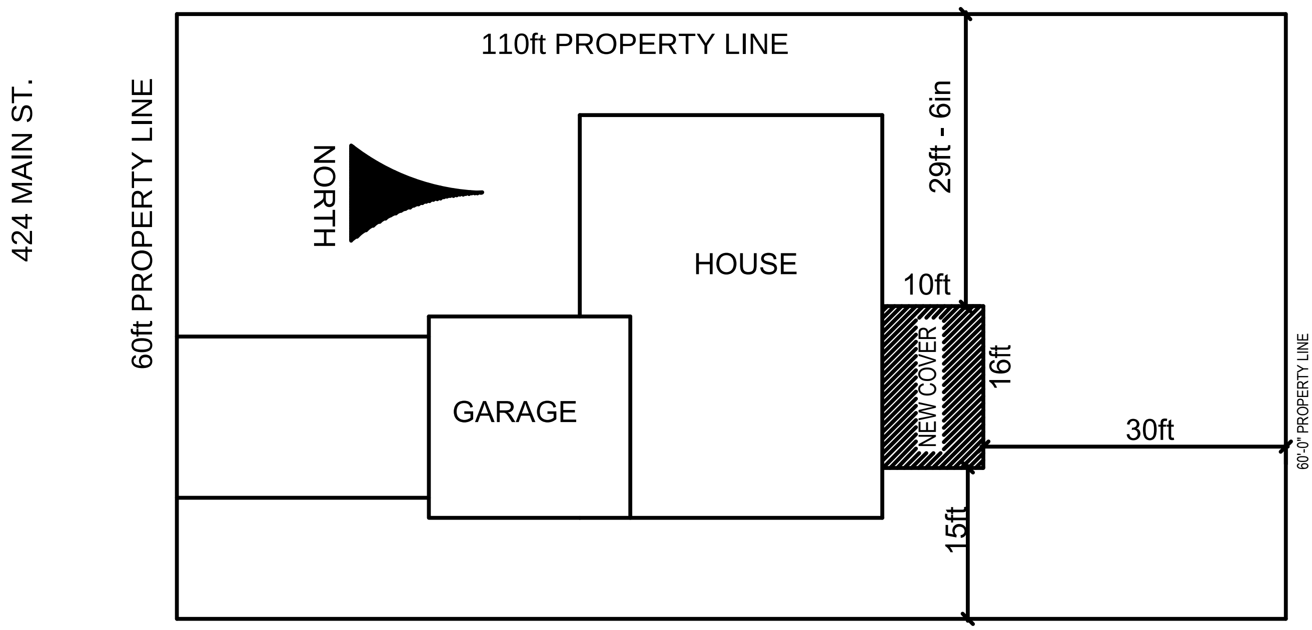
PATIO COVER - Pier Diameter	
Min. Pier Diameter (inches)	**Maximum Tributary Area (Square Feet)**
10 in	41
11 in	49
12 in	59
13 in	69
14 in	80
15 in	92
16 in	105
17 in	118
18 in	133
19 in	148
20 in	164
21 in	180
22 in	198
23 in	216
24 in	236



Method 1: Ledger Board Attachment



Method 2: Roof Deck Attachment



SCALE (i.e.: 1" = 20'-0")

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1. Electronic PDF plans set on a flash drive or (2) sets of paper plans. Must be drawn to scale (i.e.: 1/4" = 1').
2. Electronic PDF site plan on a flash drive or (2) sets of paper site plans 8 İ " x 14" or smaller.
3. Drawn to scale (i.e.: 1"=20').
4. Permit application form.
5. General Contractor, or Homeowner's Affidavit if homeowner will be doing construction. (The form is available at Building Services, 281 N. College Ave.)

Inspections

1. Pier hole inspection
2. Rough frame inspection
3. Rough electrical (for new lights/outlets if applicable)
4. Final inspections

Building Permit Process

1. Prepare

Use the appropriate submittal guide and checklist for your project to determine what information you will need to submit for permit.
(Only complete submittals are accepted).

2. Submit for Permit

a. Submit electronic PDF plans using submittal instructions attached.
b. We accept hand drafted plans scanned into an electronic PDF format.
c. Submit separately to Poudre Fire Authority and Larimer County Health Dept.

3. The Project is Reviewed for compliance.

a. The project is reviewed by many City Departments to ensure compliance with building codes, land use code, and project specific requirements.
b. This review process reduces costly re-construction by reviewing for compliance prior to construction.
c. Check the status of your permit:https://accela-aca.fcgov.com/CitizenAccess/Default.aspx

4. Permit Issuance

Once all departments have signed off, all fees have been paid, and all contractors are locally licensed and insured, the permit is issued.

5. Construction Begins

b. Build to the approved set of plans.
c. Pay attention to Red-Lines/mark-ups on the approved set of plans that have been added by reviewers.
d. If the design changes during construction, submit the revised set of drawings or additional letters for review prior to proceeding with the changes.

6. Inspections

Schedule inspections in this order **as applicable per project** (additional options are available for commercial projects)https://www.fcgov.com/building/inspections.php

Inspection Guide		
Underground Inspections	Setback and Footing	Can be scheduled at the same time
	Foundation	
	Underground Electric (commercial only)	
	Sewer Line Inspection	
	Water Service Inspection	
	Underground Plumbing (Inside building)	
	Pre-siding/sheer inspection (schedule as rough frame)	
Rough Inspections	Gas line air test	Can be scheduled at the same time
	Plumbing top out and water test	
	Electric energize	
	Rough mechanical	
	Rough electrical	
	Fireplace (if applicable)	
	Rough Frame (fire blocking and air sealing also)	
	Insulation	
Finals	Final Inspections: Plumbing, Electric, Mechanical, Final Building	

7. Project Closeout

Check your permit status, and submit any final documents requested prior to receiving a letter of completion (LOC) or Certificate of Occupancy (CO).