PATIO COVER LIMITATIONS:

The following sample illustrations show how an attached unenclosed patio cover structure may be built using the “Conventional Light Wood-Frame Construction Guidelines” of the 2013 California Residential Code (CRC). These illustrations are only applicable to residential dwellings classified as R-3 occupancies. This handout is not intended to be used for room additions which require compliance with code provisions such as heating, waterproofing, and normal live and wind loads.

If the patio structure consists of simple designs similar to these sample illustrations a structural analysis/evaluation may not be required. Structures of unusual shape or design and for structures with tile roofing materials a structural analysis/evaluation will be required by a California licensed Architect or Engineer.

PERMIT REQUIREMENTS:

- A permit is required for all attached patio covers
- Permits are issued to either the property owner with a completed Owner/Builder form or to a California licensed contractor with a current City of Stockton Business License.
- Permits can be obtained at the Community Development Department Permit Center.
  - Located at 345 N. El Dorado St, Stockton, CA 95202
  - Office hours are from 8:00 a.m. to 4:30 p.m. Monday through Friday, closed alternate Fridays.
- A copy of the Permit Application, Owner/Builder Form, and Construction/Demolition Recycling Form can be downloaded at [http://www.stocktongov.com/government/departments/permitCenter/buildBro.html](http://www.stocktongov.com/government/departments/permitCenter/buildBro.html)
- (3) sets of the following plans on a minimum 11”x17” size paper shall be provided:
  - Site Plan  
  - Floor/Foundation Plan  
  - Roof Framing  
  - Cross Section/Elevations  
  - Framing Details

SETBACK AND LOT COVERAGE REQUIREMENTS:

**Setbacks:** Attached patio covers shall conform to the same setback requirements as the main structure. In “RL” zone the front setback is 20 feet from the property line, the rear and street side setback is 10 feet from the property line, and the non-street side setback is 5 feet from the property line. **Note:** Patio covers less than 5 feet (including overhang) from the property line will require fire protection or non-combustible construction.

**Lot Coverage:** The maximum area of a lot that may be covered by all primary and accessory structures over 30 inches in height (house, garage, patio cover, etc.) is fifty (50) percent for residential zones.

INSPECTION REQUIREMENTS:

Inspections may be scheduled by calling the 24-hour inspection line at (209) 937-8560. All inspections must be scheduled at the latest by 4:00 p.m. on the business day prior to the requested inspection.

Typical inspections for a wood framed patio cover are as follows:

- Setbacks 110  
- Footings 115  
- Shear Nailing (roof) 315  
- Rough Electrical 435  
- Rough Frame 450  
- Lath and Plaster 495  
- Final Smoke/CM detectors 712/714  
- Final Electrical 720  
- Final Building 725
SITE PLAN REQUIREMENTS:
Site Plans should be drawn to scale and include the following information about the property:
- Property owner’s name
- Street Address
- Assessor’s Parcel Number (A.P.N.)
- Scope of work
- Designer of record
- Lot dimensions and easements
- Size and location of existing and proposed structures
- Distance between new patio cover and property lines
- Total covered area square footage

FLOOR PLAN REQUIREMENTS:
Floor plans should be drawn to scale and include the following information:
- Dimensions for the proposed patio cover
- Distance between posts (beam span) – see Table A on page 3
- Size of posts
- Proposed floor material (concrete, pavers, etc.)
- Footing size and type (isolated spread footing or continuous) – see Table C on page 3
- Depth of patio cover (rafter span) – see Table B on page 3
### TABLE A – Allowable Spans for Rafters
(Live Load = 20 psf, Dead Load = 10 psf)

<table>
<thead>
<tr>
<th>Rafter Span (feet)</th>
<th>12 Inches</th>
<th>16 Inches</th>
<th>24 Inches</th>
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### NOTES:
1. The rafter and beam span tables are based on Douglas Fir/Larch #2 or better.
2. Concrete pad footings shall have minimum reinforcement of #4 bars @ 12" O.C. max. each way. Continuous footings shall have #4 bars top and bottom. Reinforcement shall be located 3" clear from the bottom of the footings.
3. The minimum roof pitch for asphalt shingles is 2:12 provided that two layers of type 15 felt are applied. One layer of felt required for slopes of 4:12 or greater.
4. Plywood or particle board sheathing must be CC exterior or better. Nailing shall be a minimum of 8d at 6" O.C. on the edges and 12" O.C. on the field.
5. The details in this handout are not meant to be used for concrete tile roof coverings. An engineered design will be required.
6. Stucco or plaster ceilings are not to be used at framing shown in span tables.

### TABLE B – Allowable Spans for Beams
(Live Load = 20 psf, Dead Load = 10 psf)

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<thead>
<tr>
<th>Post Spacing (feet)</th>
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### TABLE C – Minimum Footing Size
(inches sq. x 12 inches deep minimum)

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<th>Post Spacing (feet)</th>
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TYPICAL CROSS SECTION
(Refer to tables on page 3 for member and footing sizes)

Roof drainage (gutter)
Drip flash/gravel stop
Rolled torch-down (or) built-up roofing
1/2" CDX plywood sheathing w/ 8d nails 6" o.c. @ edges & 12" o.c. field
2x roof framing (specify per Table A on page 3)
 Verify with Planning department for minimum setback dimensions (fire protection required if less than 5'-0"
Slope (1/4'/ft)
2x blocking @ support & mid-span
26 GA. galvanized flashing strip
Joist hanger (specify)
2x ledger w/ 1/2" dia. x 5" long lag bolt @ each wall stud (specify ledger size to match or exceed depth of rafter)
A35 @ each block
2x blocking w/ ICC approved framing anchor at each block
4x beam (specify per Table B on page 3) w/ approved column cap (or) T-strap both sides installed per manufacturer’s specifications
4x4 Post (minimum)
Setback

Existing door opening – set beam height at patio roof so roof framing clears head heights for exiting, screen door swings, etc.
3-1/2" concrete slab w/ 6X6-10/10 WWF or 2’ sand bed o/ 6 mil vapor barrier (optional) o/ 4” to 6” gravel base
12” Minimum into undisturbed soil
3” Minimum rebar clearance
Continuous footing w/ #4 bars top & bottom (or) pad footing @ each post per Table C on page 3

PROPERTY LINE
Side clearance per manufacturer’s recommendations
1” Standoff
8” Minimum (no minimum if pressure-treated lumber or clear heart redwood post is utilized)

Last updated: 9/25/2015
**REQUIRED DETAILS**
(Refer to tables on page 3 for member and footing sizes)

- Extend roofing min. 4" beyond edge of flashing
- 26 GA. galvanized flashing min. 4" beyond roof joint
- Slope (1/4"/ft)
- Rolled/orch-down or built-up roof
- 1/2" CDX plywood sheathing
- 2x roof framing
- Joist hanger
- 2x ledger w/ 1/2" dia. x 5" long lag bolt @ 16" oc into top plate

**ALTERNATE CONNECTION DETAIL**
(Typical for patio covers)

**TRELLIS DETAIL**

- Trellis member with 3-3d toe nailed
- Trellis member with framing angle
- Beam with post cap
- Post

**LATERAL BRACING DETAIL**
(Required at each post)

- Rafter spacing (page 3)
- 2x Rafters
- PC44 (or equal)
- 4x4 Post
- 4x4 brace w/ 5/8" dia. thru-bolts or lags to the post and header
- 4x Header
- 2'-0" Min.