

# ATTACHED PATIO COVER AND TRELLIS



City of  
**SANTA ROSA**  
Planning & Economic  
Development - Building Division

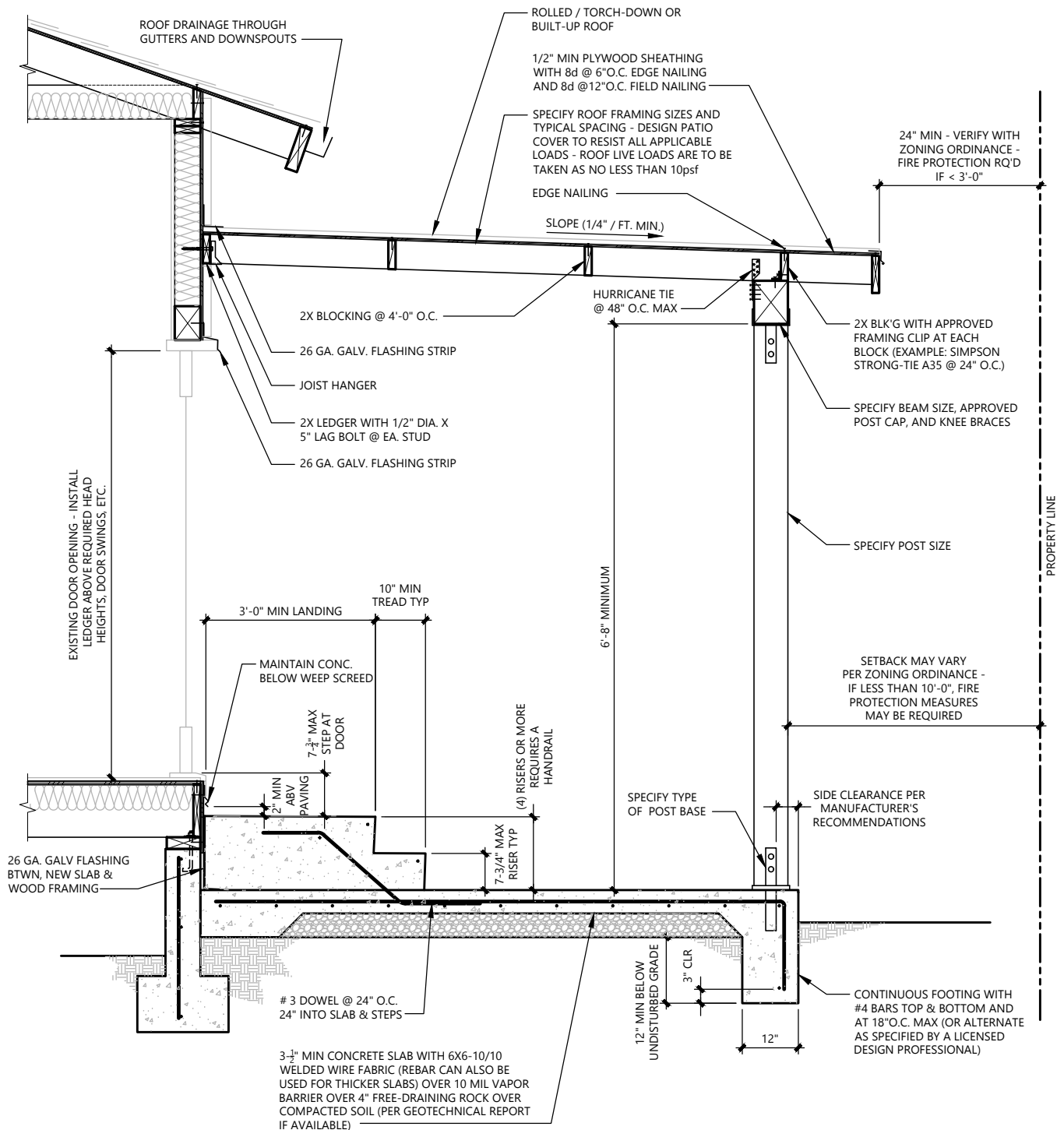
LAST UPDATED: 29 AUGUST 2023

THIS DRAWING DEPICTS MINIMUM CODE REQUIREMENTS PER THE 2022 CALIFORNIA CODE CYCLE - INFORMATION IS FOR REFERENCE ONLY AND IS NOT A SUBSTITUTE FOR ACCURATE DRAWINGS PREPARED FOR EACH PROPOSED CONSTRUCTION PROJECT

## PATIO COVER DEFINITION (CRC APPENDIX H):

A ONE-STORY STRUCTURE (NOT EXCEEDING 12'-0" IN HEIGHT), WITH OPEN OR GLAZED WALLS, THAT IS USED FOR RECREATIONAL OUTDOOR LIVING PURPOSES ASSOCIATED WITH A DWELLING UNIT - ENCLOSURE WALLS SHALL BE PERMITTED TO BE OF ANY CONFIGURATION, PROVIDED THAT THE OPEN OR GLAZED AREA OF THE LONGER WALL AND ONE ADDITIONAL WALL IS NOT LESS THAN 65% OF THE AREA BELOW 6'-8" OF EACH WALL, MEASURED FROM THE FLOOR - PATIO COVERS ARE NOT TO BE USED AS CARPORTS, GARAGES, STORAGE ROOMS, OR HABITABLE ROOMS

PROVIDE A SITE PLAN WITH INFORMATION SIMILAR TO THE SITE PLAN HANDOUT - PROVIDE A FRAMING PLAN SHOWING PURLIN SIZES & SPACING, LOCATIONS OF POSTS, FOUNDATION DIMENSIONS, ETC.



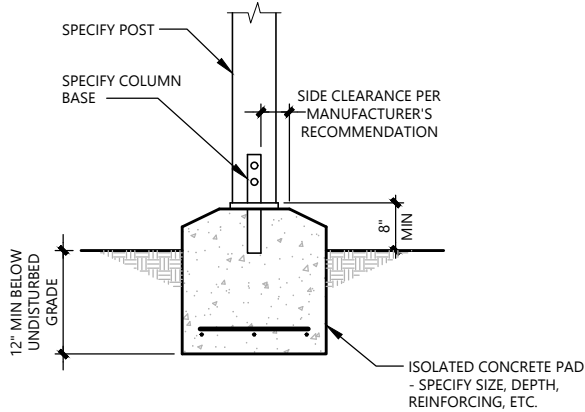
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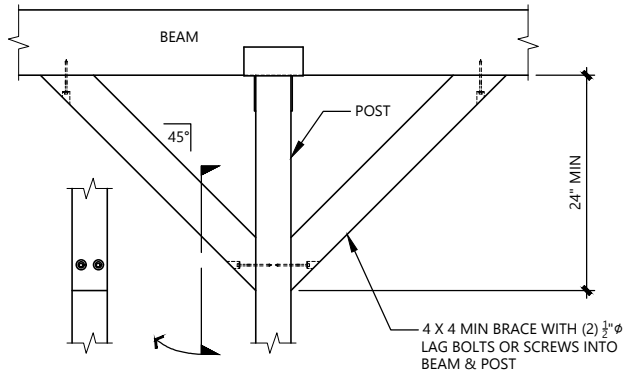
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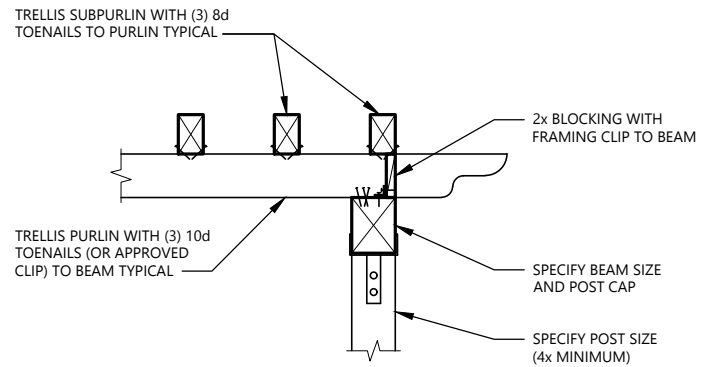
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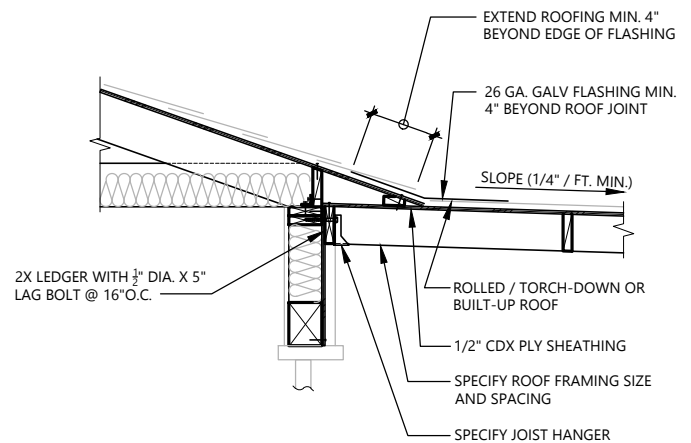
**ALT FOOTING DETAIL "A"**



**KNEE BRACE DETAIL "C"**



**TRELLIS DETAIL "B"**



**ALTERNATE CONNECTION DETAIL "D"**

**NOTE:** FOR OTHER GRADES, SPECIES, AND SPAN CONDITIONS, SEE FULL SCHEDULES IN CRC TABLES R802.4.1(1) THROUGH R802.4.1(8) AND R802.5.1(1) THROUGH R802.5.1(2)

## ALLOWABLE JOIST AND RAFTER SPANS

DF/Larch #2 Nominal Size (inches)	Spacing in inches on center	Ceiling Joist (No stor) LL=10 psf, DL=5 psf L/defl = 240	Rafter LL=20 psf, DL=10 psf L/defl = 240 (recmnd)	Rafter LL=20 psf, DL=20 psf L/defl = 240 (recmnd)
2 x 4	12"	12' - 5"	9' - 10"	9' - 10"
	16"	11' - 3"	8' - 11"	8' - 7"
	24"	9' - 10"	7' - 10"	7' - 0"
2 x 6	12"	19' - 6"	15' - 6"	14' - 7"
	16"	17' - 8"	14' - 1"	12' - 7"
	24"	15' - 0"	11' - 11"	10' - 4"
2 x 8	12"	25' - 8"	20' - 5"	18' - 5"
	16"	23' - 4"	18' - 5"	16' - 0"
	24"	19' - 1"	15' - 1"	13' - 0"
2 x 10	12"	NOTE "A"	26' - 0"	22' - 6"
	16"	NOTE "A"	22' - 6"	19' - 6"
	24"	23' - 3"	18' - 5"	15' - 11"
2 x 12	12"	NOT IN CODE	NOTE "A"	26' - 0"
	16"	NOT IN CODE	26' - 0"	22' - 7"
	24"	NOT IN CODE	21' - 4"	18' - 6"

**NOTE "A":** LENGTH EXCEEDS PROBABLE AVAILABILITY (TYPICALLY 24'-0" TO 26'-0") CHECK LOCAL SOURCES

## ALLOWABLE BEAM SPANS (DF # 1 OR BETTER)

SPAN	BEAM SIZE
UP TO 4'-0"	4 x 4
4'-1" TO 6'-0"	4 x 6
6'-1" TO 8'-0"	4 x 8
8'-1" TO 10'-0"	4 x 10
10'-1" TO 12'-0"	4 x 12

**NOTES:**  
BEAM SIZES ARE BASED ON A  
MAXIMUM JOIST SPAN OF 20'-0"  
(10'-0" TRIBUTARY LOAD ON BEAM)

## FOOTINGS ON EXPANSIVE SOILS:

FOOTING SYSTEMS ON EXPANSIVE SOIL SHALL BE CONSTRUCTED IN A MANNER THAT WILL MINIMIZE DAMAGE TO THE STRUCTURE FROM MOVEMENT OF THE SOIL:

1. DEPTH OF FOOTINGS BELOW THE NATURAL AND FINISHED GRADES SHALL NOT BE LESS THAN 24" FOR EXTERIOR AND 18" FOR INTERIOR FOOTINGS
2. EXTERIOR WALLS AND INTERIOR BEARING WALLS SHALL BE SUPPORTED ON CONTINUOUS FOOTINGS
3. FOOTINGS SHALL BE REINFORCED WITH (4) #4 BARS. ((2) EACH AT 3" CLEAR FROM TOP & BOTTOM)
4. CONCRETE FLOOR SLABS ON GRADE SHALL BE PLACED ON A 10 MILLIMETER MIN THICK VAPOR BARRIER MEMBRANE OVER A 4" FILL OF COARSE AGGREGATE - SLABS SHALL BE AT LEAST 4" THICK AND BE REINFORCED WITH #3 OR #4 BARS AT 16" O.C. EACH WAY
5. THE SOIL BELOW AN INTERIOR CONCRETE SLAB SHALL BE SATURATED WITH MOISTURE TO A DEPTH OF 18" PRIOR TO PLACING THE CONCRETE