SFR–COVERED PATIO HEAVY ROOFING MATERIAL 2024 IBC

Clark County
Building Department
4701 W Russell Rd
Las Vegas, NV 89118
(702) 455-3000

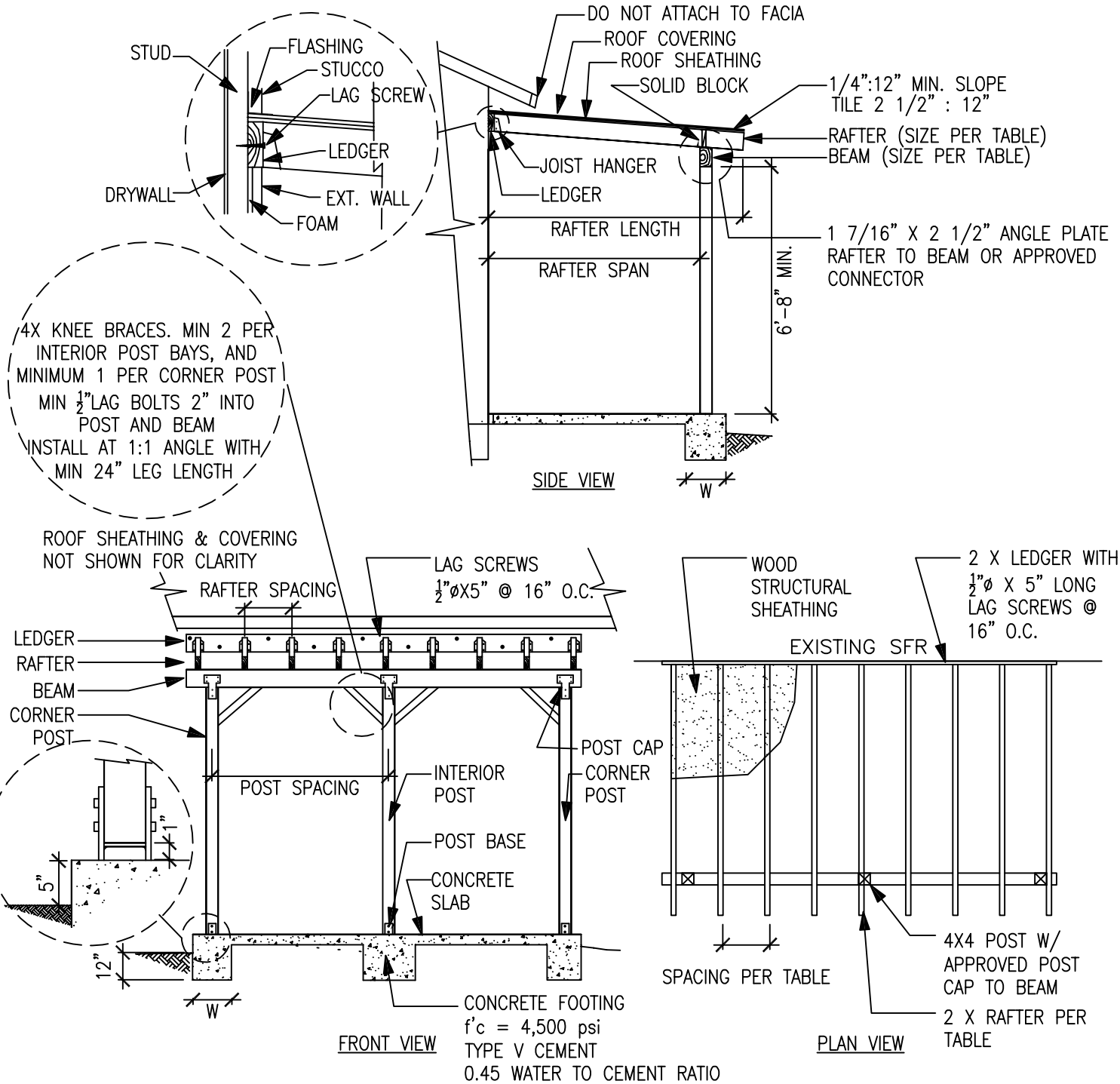
Boulder City
Building Department
401 California Avenue
Boulder City, NV 89005
(702) 293-9282

Henderson
Building & Fire Safety Division
240 S. Water Street
Henderson, NV 89015
(702) 267-3650

Las Vegas
Building & Safety Dept.
495 S. Main Street
Las Vegas, NV 89101
(702) 229-6251

**THIS HANDOUT IS NOT INTENDED FOR THE CONSTRUCTION OF DECKS, BALCONIES, OR ROOM ADDITIONS

MORE THAN THE MINIMUM SLOPE OF 1/4:12 MAY BE REQUIRED DUE TO THE ROOF COVERING SELECTED



Mesquite
Building Department
10 East Mesquite Blvd.
Mesquite, NV 89027
(702) 346-2835

North Las Vegas
Building Safety
2250 Las Vegas Blvd. N
N. Las Vegas, NV 89030
(702) 633-1577

Pahrump
Nye County Building Department
2041 E. Calvada Boulevard North
Pahrump, NV 89048
(775) 751-3373

Clark County School District
Building Department
1180 Military Tribute Place
Henderson, NV 89074
(702) 799-7605

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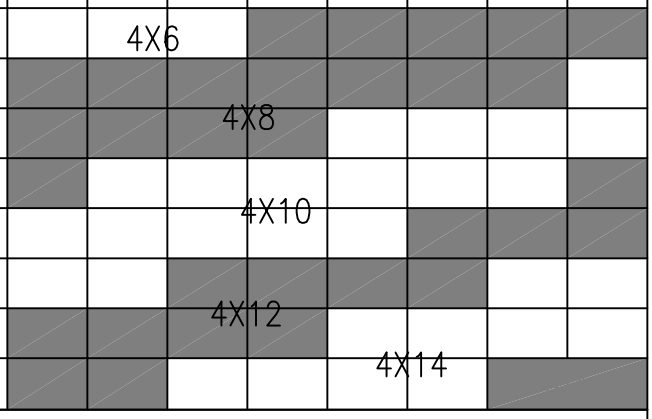
RAFTER SPAN
USING DOUGLAS FIR #2 GRADING AGENCY WWPA, WCLIB

SIZE	SPACING	MAX SPAN
2X4	12"	8'-7"
	16"	7'-10"
	24"	6'-10"
2X6	12"	13'-6"
	16"	12'-3"
	24"	10'-2"
2X8	12"	17'-10"
	16"	15'-9"
	24"	12'-10"
2X10	12"	22'-3"
	16"	19'-3"
	24"	15'-9"

NOTE: WHEN ADDING 1/2" GYPSUM BOARD AND 1/2" STUCCO FOR CEILING/SOFFIT:
- INCREASE (1) RAFTER SIZE FOR REQUIRED SPAN/SPACING
- INCREASE (1) BEAM SIZE
- ADD 2" TO 'W' FOR SQUARE FOOTING SIZE

BEAM SIZE
USING DOUGLAS FIR #2 GRADING AGENCY WWPA, WCLIB
RAFTER SPAN WITH 1'-6" OVERHANG



SQUARE FOOTING SIZE (W X W) IN INCHES
RAFTER SPAN WITH 1'-6" OVERHANG

POST SPACING	8'	9'	10'	11'	12'	13'	14'	15'
8'	18	18	18	20	20	20	20	22
9'	18	18	20	20	20	22	22	22
10'	18	20	20	22	22	22	24	24
11'	20	20	22	22	22	24	24	24
12'	20	22	22	24	24	24	26	26
13'	22	22	24	24	24	26	26	28
14'	22	24	24	24	26	26	28	28
15'	24	24	24	26	26	28	28	28

APPLICANT_____.

JOB ADDRESS_____.

PATIO DIMENSION_____X_____.

RAFTER SIZE_____X_____SPACING_____O.C. SPAN_____.

LEDGER SIZE_____X_____.

POST SIZE_____X_____SPACING_____O.C.

BEAM SIZE_____X_____.

FOOTING SIZE_____X_____.

ROOF MATERIAL_____.

ROOF PITCH_____.

ROOF SHEATHING_____.

DESIGN CRITERIA
LIVE LOAD 10 PSF
DEAD LOAD 20 PSF
LIVE LOAD DEFLECTION L/360
ALLOWABLE SOIL BEARING 1000 PSF

STRUCTURAL WOOD SHEATHING
RATED SHEATHING, EXPOSURE 1
PLYWOOD DOC PS1 OR
ORIENTED-STRAND-BOARD (OSB) DOC PS2

PANEL THICKNESS	SPAN RATING
15/32"	32/16
1/2"	24/0

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