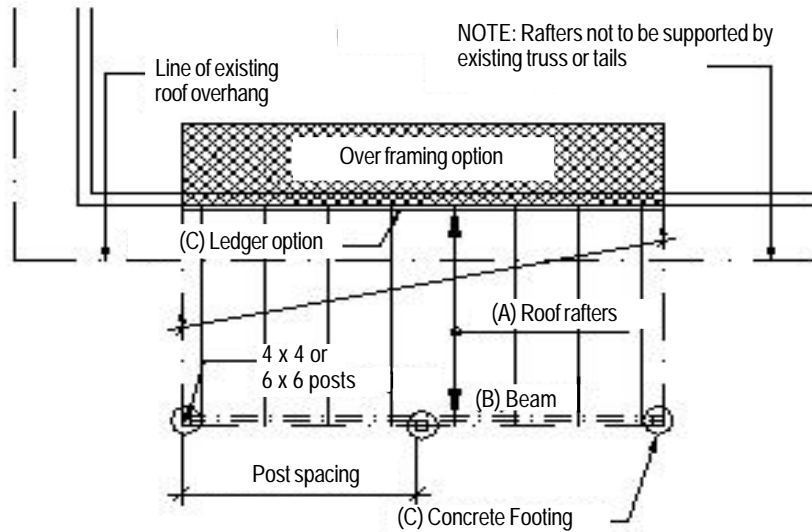


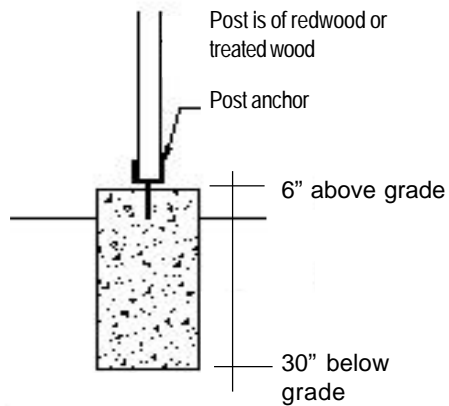
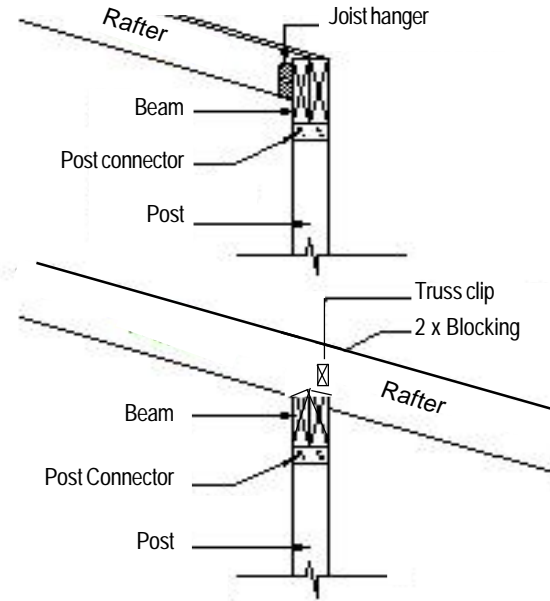
# DECK & PATIO COVERS

## BEAM DETAILS

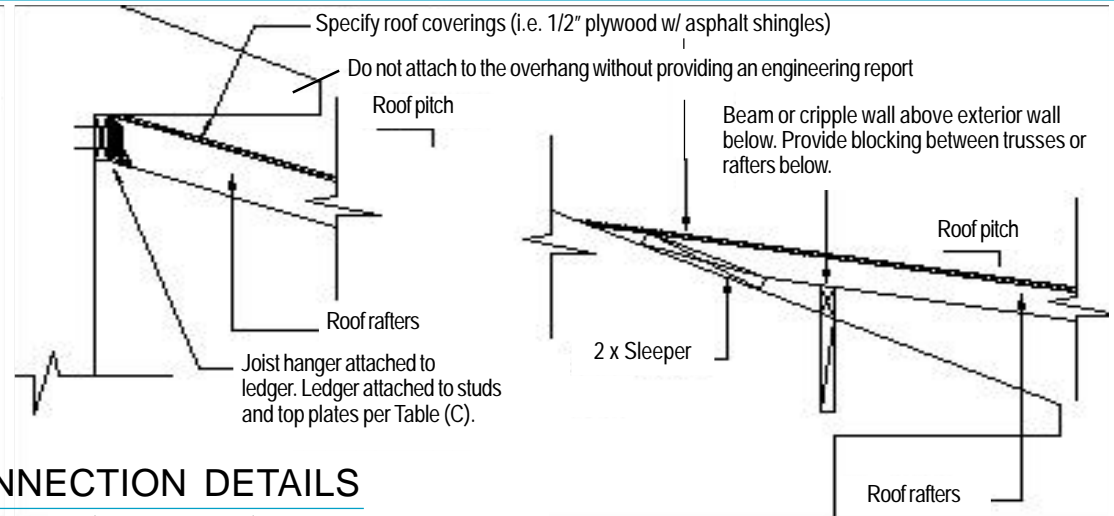
(2 options illustrated)



## FRAMING PLANS



## FOOTING DETAILS



## CONNECTION DETAILS

(2 options illustrated)

### ELEVATIONS LESS THAN 7000 FEET

Tables are based on Hem Fir #2 (or better) lumber; 30 PSF LL, 15 PSF DL (Asphalt Shingle); and 1500 PSF soil bearing pressure with skin friction equal to 1/5th of bearing (maximum 500 psf) for bottom 18"

#### NO CANTILEVER

\*Rims require two additional 16d nails per lag bolt

JOIST SPAN (feet)	(A) MINIMUM JOIST SIZE			(B) MINIMUM BEAM SIZE with post spacing at:						(C) MINIMUM CONNECTION OF LEDGER				(D) MINIMUM DIAMETER OF FOOTING (inches)												
	12" OC	16" OC	24" OC	5 feet	6 feet	7 feet	8 feet	9 feet	10 feet	STUD		RIM*		5 Feet	6 Feet	End Piers		7 Feet	8 Feet	Center Piers		7 feet	8 feet	9 feet	10 feet	
										16" OC	24" OC	12" OC	16" OC	24" OC			7 Feet	8 Feet	9 Feet	10 Feet	5 Feet	6 feet	7 feet	8 feet	9 feet	10 feet
6	2x6	2x6	2x6	2-2x6	2-2x6	2-2x6	2-2x6	2-2x6	2-2x8	1-3/8	1-7/16	1-3/8	1-3/8	2-3/8	8	8	8	8	8	8	8	8	8	8	8	8
7	2x6	2x6	2x6	2-2x6	2-2x6	2-2x6	2-2x6	2-2x6	2-2x8	1-3/8	1-7/16	1-3/8	1-3/8	2-3/8	8	8	8	8	8	8	8	8	8	8	8	8
8	2x6	2x6	2x6	2-2x6	2-2x6	2-2x6	2-2x6	2-2x6	2-2x8	1-3/8	2-5/16	1-3/8	1-3/8	2-3/8	8	8	8	8	8	8	8	8	8	8	10	10
9	2x6	2x6	2x6	2-2x6	2-2x6	2-2x6	2-2x6	2-2x8	2-2x10	1-7/16	2-5/16	1-3/8	2-3/8	2-3/8	8	8	8	8	8	8	8	8	8	8	10	10
10	2x6	2x6	2x8	2-2x6	2-2x6	2-2x6	2-2x8	2-2x8	2-2x10	1-7/16	2-7/16	1-3/8	2-3/8	2-3/8	8	8	8	8	8	8	8	8	8	10	10	12
11	2x6	2x6	2x8	2-2x6	2-2x6	2-2x6	2-2x8	2-2x8	2-2x10	1-7/16	2-7/16	1-3/8	2-3/8	2-3/8	8	8	8	8	8	8	8	8	8	10	12	14
12	2x6	2x8	2x10	2-2x6	2-2x6	2-2x8	2-2x8	2-2x10	2-2x12	2-5/16	2-7/16	2-3/8	2-3/8	3-3/8	8	8	8	8	8	8	8	8	10	12	14	16
13	2x8	2x8	2x10	2-2x6	2-2x6	2-2x8	2-2x8	2-2x10	2-2x12	2-5/16	2-7/16	2-3/8	2-3/8	3-3/8	8	8	8	8	8	8	8	8	10	12	14	16
14	2x8	2x8	2x10	2-2x6	2-2x6	2-2x8	2-2x8	2-2x10	2-2x12	2-3/8	2-7/16	2-3/8	2-3/8	3-3/8	8	8	8	8	8	8	8	8	10	12	14	16
15	2x8	2x10	2x12	2-2x6	2-2x6	2-2x8	2-2x10	2-2x10	2-2x12	2-3/8	2-7/16	2-3/8	2-3/8	3-3/8	8	8	8	8	8	8	8	8	10	12	14	16
16	2x8	2x10	2x12	2-2x6	2-2x8	2-2x8	2-2x10	2-2x10	2-2x12	2-7/16	3-3/8	2-3/8	2-3/8	3-3/8	8	8	8	8	8	8	8	8	10	12	14	16

#### 2' CANTILEVER

\*Rims require two additional 16d nails per lag bolt

JOIST SPAN (feet)	(A) MINIMUM JOIST SIZE			(B) MINIMUM BEAM SIZE with post spacing at:						(C) MINIMUM CONNECTION OF LEDGER				(D) MINIMUM DIAMETER OF FOOTING (inches)												
	12" OC	16" OC	24" OC	5 feet	6 feet	7 feet	8 feet	9 feet	10 feet	STUD		RIM*		5 Feet	6 Feet	End Piers		7 Feet	8 Feet	Center Piers		7 feet	8 feet	9 feet	10 feet	
										16" OC	24" OC	12" OC	16" OC	24" OC			7 Feet	8 Feet	9 Feet	10 Feet	5 Feet	6 feet	7 feet	8 feet	9 feet	10 feet
6	2x6	2x6	2x6	2-2x6	2-2x6	2-2x6	2-2x8	2-2x8	2-2x10	1-5/16	1-7/16	1-3/8	1-3/8	2-3/8	8	8	8	8	8	8	8	8	8	8	10	12
7	2x6	2x6	2x6	2-2x6	2-2x6	2-2x6	2-2x8	2-2x8	2-2x10	1-3/8	1-7/16	1-3/8	1-3/8	2-3/8	8	8	8	8	8	8	8	8	8	8	10	12
8	2x6	2x6	2x6	2-2x6	2-2x6	2-2x8	2-2x8	2-2x10	2-2x10	1-3/8	2-5/16	1-3/8	1-3/8	2-3/8	8	8	8	8	8	8	8	8	8	10	12	14
9	2x6	2x6	2x6	2-2x6	2-2x6	2-2x8	2-2x8	2-2x10	2-2x12	1-7/16	2-5/16	1-3/8	2-3/8	2-3/8	8	8	8	8	8	8	8	8	8	10	12	14
10	2x6	2x6	2x8	2-2x6	2-2x6	2-2x8	2-2x8	2-2x10	2-2x12	1-7/16	2-7/16	1-3/8	2-3/8	2-3/8	8	8	8	8	8	8	8	8	8	10	12	14
11	2x6	2x6	2x8	2-2x6	2-2x6	2-2x8	2-2x8	2-2x10	2-2x12	1-7/16	2-7/16	1-3/8	2-3/8	2-3/8	8	8	8	8	8	8	8	8	8	10	12	14
12	2x6	2x8	2x10	2-2x6	2-2x8	2-2x8	2-2x10	2-2x10	2-2x12	2-5/16	2-7/16	2-3/8	2-3/8	3-3/8	8	8	8	8	8	8	8	8	8	10	12	14
13	2x8	2x8	2x10	2-2x6	2-2x8	2-2x8	2-2x10	2-2x12	2-2x12	2-5/16	2-7/16	2-3/8	2-3/8	3-3/8	8	8	8	8	8	8	8	8	8	10	12	14
14	2x8	2x8	2x10	2-2x6	2-2x8	2-2x8	2-2x10	2-2x12	-	2-3/8	2-7/16	2-3/8	2-3/8	3-3/8	8	8	8	8	8	8	8	8	8	12	14	16
15	2x8	2x10	2x12	2-2x6	2-2x8	2-2x8	2-2x10	2-2x12	-	2-3/8	2-7/16	2-3/8	2-3/8	3-3/8	8	8	8	8	8	8	8	8	8	12	14	16
16	2x8	2x10	2x12	2-2x6	2-2x8	2-2x10	2-2x10	2-2x12	-	2-7/16	3-3/8	2-3/8	2-3/8	3-3/8	8	8	8	8	8	8	8	8	8	10	12	14

#### 3' CANTILEVER

\*Rims require two additional 16d nails per lag bolt

JOIST SPAN (feet)	(A) MINIMUM JOIST SIZE			(B) MINIMUM BEAM SIZE with post spacing at:						(C) MINIMUM CONNECTION OF LEDGER				(D) MINIMUM DIAMETER OF FOOTING (inches)												
	12" OC	16" OC	24" OC	5 feet	6 feet	7 feet	8 feet	9 feet	10 feet	STUD		RIM*		5 Feet	6 Feet	End Piers		7 Feet	8 Feet	Center Piers		7 feet	8 feet	9 feet	10 feet	
										16" OC	24" OC	12" OC	16" OC	24" OC			7 Feet	8 Feet	9 Feet	10 Feet	5 Feet	6 feet	7 feet	8 feet	9 feet	10 feet
6	2x6	2x6	2x6	2-2x6	2-2x6	2-2x8	2-2x8	2-2x10	2-2x10	1-5/16	1-7/16	1-3/8	1-3/8	2-3/8	8	8	8	8	8	8	8	8	8	8	10	12
7	2x6	2x6	2x6	2-2x6	2-2x6	2-2x8	2-2x8	2-2x10	2-2x10	1-3/8	1-7/16	1-3/8	1-3/8	2-3/8	8	8	8	8	8	8	8	8	8	8	10	12
8	2x6	2x6	2x6	2-2x6	2-2x6	2-2x8	2-2x8	2-2x10	2-2x12	1-3/8	2-5/16	1-3/8	1-3/8	2-3/8	8	8	8	8	8	8	8	8	8	10	12	14
9	2x6	2x6	2x6	2-2x6	2-2x6	2-2x8	2-2x8	2-2x10	2-2x12	1-7/16	2-5/16	1-3/8	2-3/8	2-3/8	8	8	8	8	8	8	8	8	8	8	10	12
10	2x6	2x6	2x8	2-2x6	2-2x8	2-2x8	2-2x10	2-2x10	2-2x12	1-7/16	2-7/16	1-3/8	2-3/8	2-3/8	8	8	8	8	8	8	8	8	8	8	10	12
11	2x6	2x6	2x8	2-2x6	2-2x8	2-2x8	2-2x10	2-2x12	2-2x12	1-7/16	2-7/16	1-3/8	2-3/8	2-3/8	8	8	8	8	8	8	8	8	8	8	10	12
12	2x6	2x8	2x10	2-2x6	2-2x8	2-2x8	2-2x10	2-2x12	-	2-5/16	2-7/16	2-3/8	2-3/8	3-3/8	8	8	8	8	8	8	8	8	8	8	12	14
13	2x8	2x8	2x10	2-2x6	2-2x8	2-2x8	2-2x10	2-2x12	-	2-5/16	2-7/16	2-3/8	2-3/8	3-3/8	8	8	8	8	8	8	8	8	8	8	12	14
14	2x8	2x8	2x10	2-2x6	2-2x8	2-2x8	2-2x10	2-2x12	-	2-3/8	2-7/16	2-3/8	2-3/8	3-3/8	8	8	8	8	8	8	8	8	8	8	12	14
15	2x8	2x10	2x12	2-2x6	2-2x8	2-2x10	2-2x10	2-2x12	-	2-3/8	2-7/16	2-3/8	2-3/8	3-3/8	8	8	8	8	8	8	8	8	8	8	12	14
16	2x8	2x10	2x12	2-2x6	2-2x8	2-2x10	2-2x10	2-2x12	-	2-7/16	3-3/8	2-3/8	2-3/8	3-3/8	8	8	8	8	8	8	8	8	8	8	10	12

### ELEVATIONS GREATER THAN 7000 FEET

Tables are based on Hem Fir #2 (or better) lumber; 40 PSF LL, 15 PSF DL (Asphalt Shingle); and 1500 PSF soil bearing pressure with skin friction equal to 1/5th of bearing (maximum 500 psf) for bottom 18"

#### NO CANTILEVER

\*Rims require two additional 16d nails per lag bolt

JOIST SPAN (feet)	(A) MINIMUM JOIST SIZE			(B) MINIMUM BEAM SIZE with post spacing at:						(C) MINIMUM CONNECTION OF LEDGER				(D) MINIMUM DIAMETER OF FOOTING (inches)												
	12" OC	16" OC	24" OC	5 feet	6 feet	7 feet	8 feet	9 feet	10 feet	STUD		RIM*		5 Feet	6 Feet	End Piers		7 Feet	8 Feet	Center Piers		7 feet	8 feet	9 feet	10 feet	
										16" OC	24" OC	12" OC	16" OC	24" OC			7 Feet	8 Feet	9 Feet	10 Feet	5 Feet	6 feet	7 feet	8 feet	9 feet	10 feet
6	2x6	2x6	2x6	2-2x6	2-2x6	2-2x6	2-2x6	2-2x8	2-2x8	1-3/8	1-7/16	1-3/8	1-3/8	2-3/8	8	8	8	8	8	8	8	8	8	8	8	10
7	2x6	2x6	2x6	2-2x6	2-2x6	2-2x6	2-2x6	2-2x8	2-2x8	1-3/8	2-5/16	1-3/8	1-3/8	2-3/8	8	8	8	8	8	8	8	8	8	8	8	10
8	2x6	2x6	2x6	2-2x6	2-2x6	2-2x8	2-2x8	2-2x10	2-2x10	1-7/16	2-3/8	1-3/8	2-3/8	2-3/8	8	8	8	8	8	8	8	8	8	8	10	12
9	2x6	2x6	2x8	2-2x6	2-2x6	2-2x8	2-2x8	2-2x10	2-2x10	1-7/16	2-5/16	1-3/8	2-3/8	2-3/8	8	8	8	8	8	8	8	8	8	8	8	10
10	2x6	2x6	2x8	2-2x6	2-2x6	2-2x8	2-2x8	2-2x10	2-2x10	1-7/16	2-7/16	1-3/8	2-3/8	2-3/8	8	8	8	8	8	8	8	8	8	8	8	10
11	2x6	2x6	2x8	2-2x6	2-2x8	2-2x8	2-2x10	2-2x12	2-2x12	1-7/16	2-7/16	1-3/8	2-3/8	2-3/8	8	8	8	8	8	8	8	8	8	8	8	10
12	2x6	2x8	2x10	2-2x6	2-2x8	2-2x8	2-2x10	2-2x12	-	2-5/16	2-7/16	2-3/8	2-3/8	3-3/8	8	8	8	8	8	8	8	8	8	8	8	12
13	2x8	2x10	2x12	2-2x6	2-2x8	2-2x8	2-2x10	2-2x12	-	2-3/8	3-3/8	2-3/8	2-3/8	3-3/8	8	8	8	8	8	8	8	8	8	8	8	12
14	2x8	2x10	2x12	2-2x6	2-2x8	2-2x8	2-2x10	2-2x12	-	2-3/8	3-3/8	2-3/8	2-3/8	3-3/8	8	8	8	8	8	8	8	8	8	8	8	12
15	2x10	2x10	-	2-2x6	2-2x8	2-2x10	2-2x10	2-2x12	-	2-7/16	3-7/16	2-3/8	2-3/8	3-3/8	8	8	8	8	8	8	8	8	8	8	8	12
16	2x10	2x12	-	2-2																						