

Decks - General Information

A Building Permit must be obtained before beginning construction of a deck in the City of Mount Vernon.

Contact the Community & Economic Development Department to get a copy of the required Building Permit application and its associated documents; or alternatively, this information can also be downloaded from the City's website at: www.mountvernonwa.gov

DECK GENERAL CONSTRUCTION NOTES:

1. All wood must be pressured treated or naturally resistant to decay. Treat all cut ends with an approved preservative.
2. Fasteners, hangers, nails, ect., must be stainless steel hot dipped galvanized, or as specifically required for specified wood preservative used.
3. You may modify any components of this tip sheet with justification by analysis or calculation. All modification must be reviewed prior to issuance of a permit.
4. Use the following construction tip sheets for the construction of decks.

ACCOMPANYING DOCUMENTS INCLUDE:

Sheet 1 - Deck Components;

Sheet 2 - Typical Floor Plan for Decks;

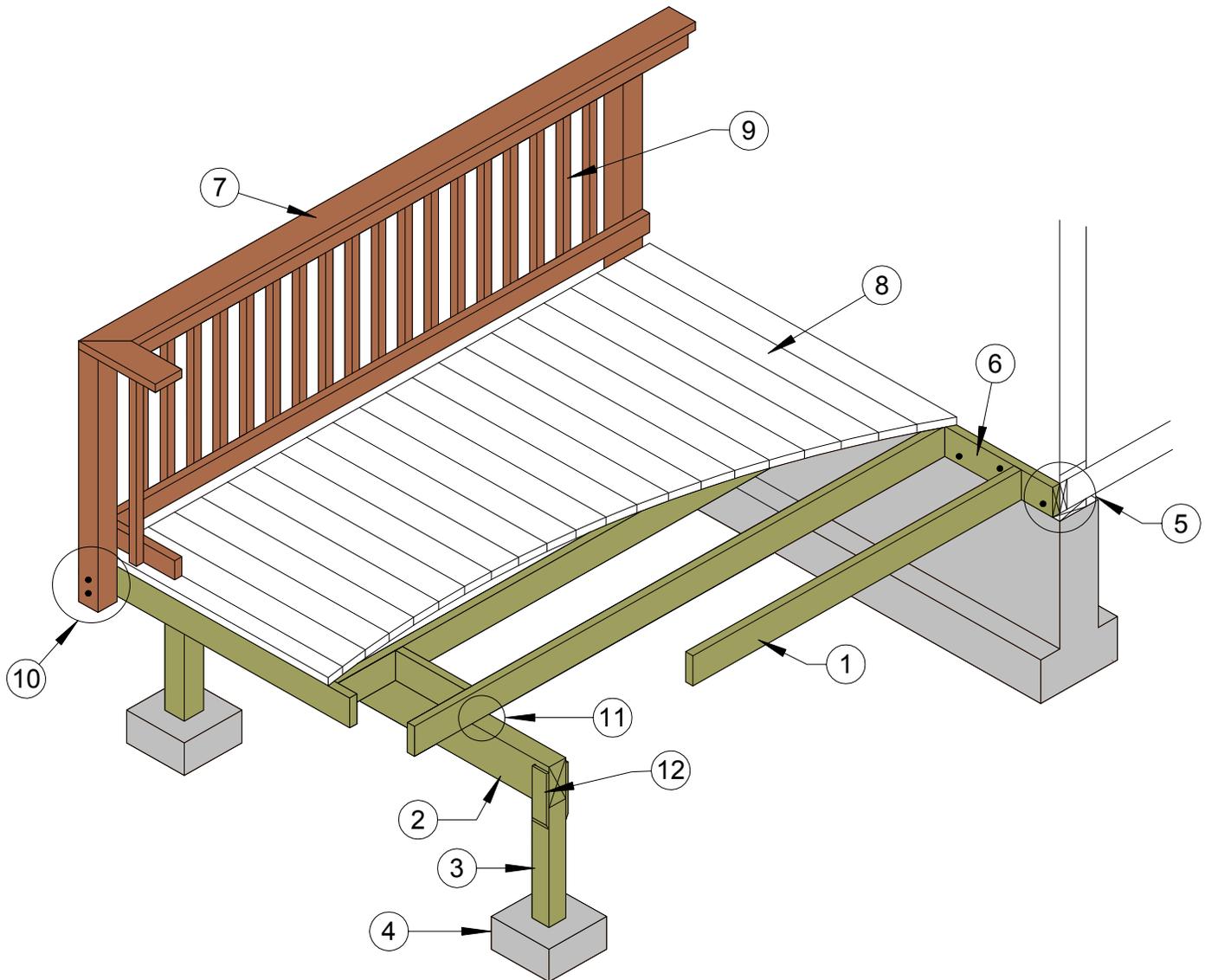
Sheet 3 - Deck Span Tables/Footings;

Sheet 4 - Ledger Attachment for Decks;

Sheet 5 - Lateral Load Attachment for Decks;

Sheet 6 - Stairs, Rise and Run for Decks; and,

Sheet 7 - Deck Guardrails.



1. Joist - 2 X member

2. Beam

3. Posts

4. Footings

5. Rim Joist

6. Ledger Board

7. Guardrail

8. Decking

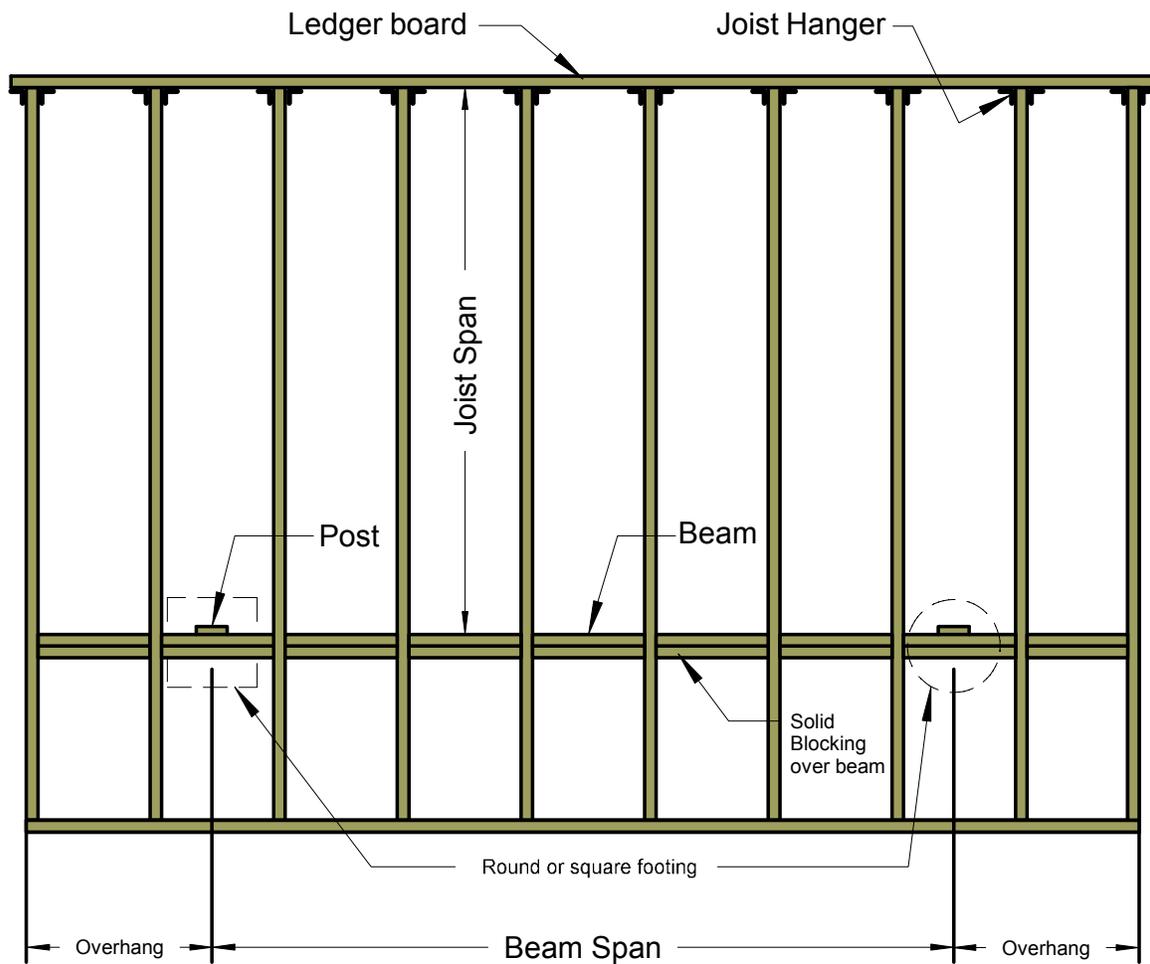
9. 2" X 2" Pickets

10. Guardrail Post Connection

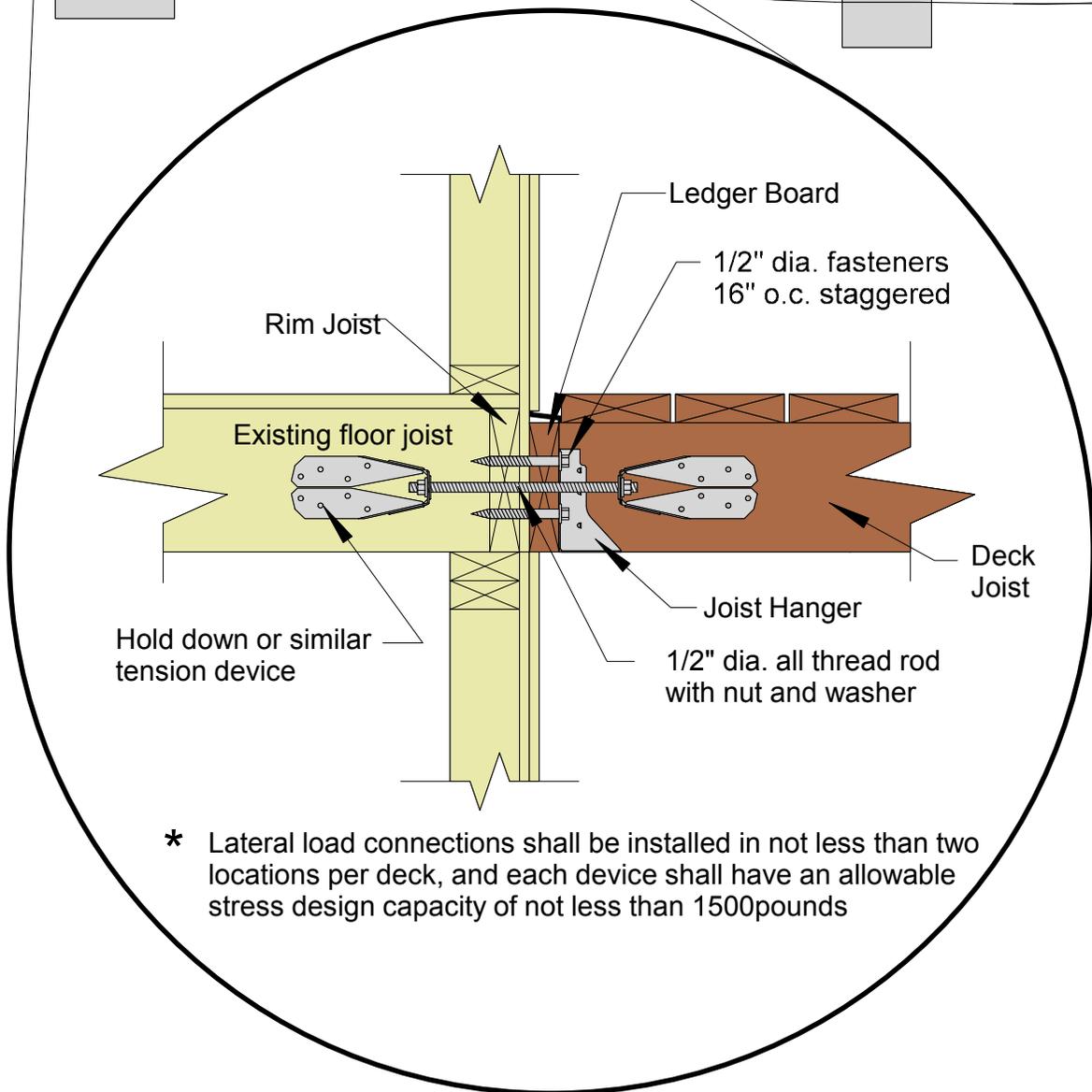
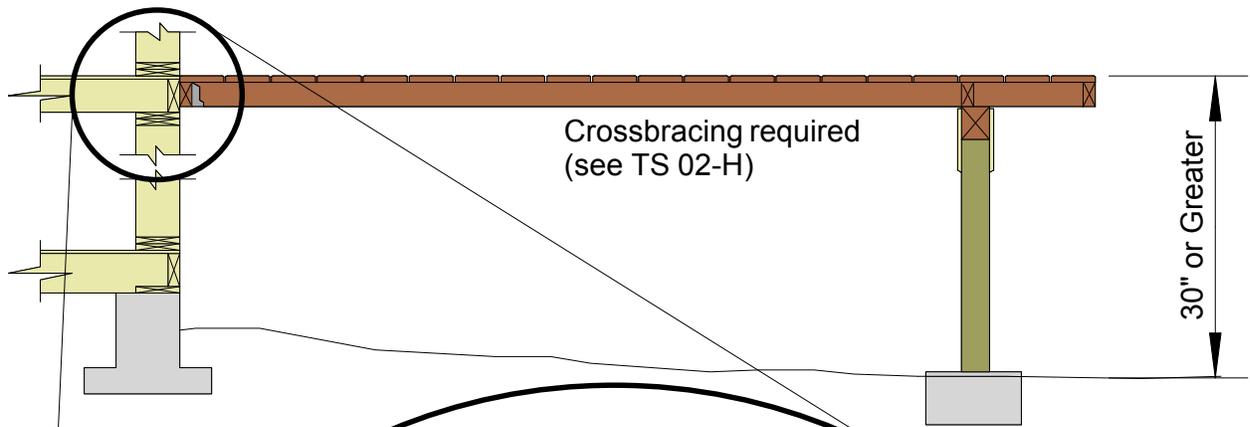
11. Joist / Beam connection

12. Post / Beam connection

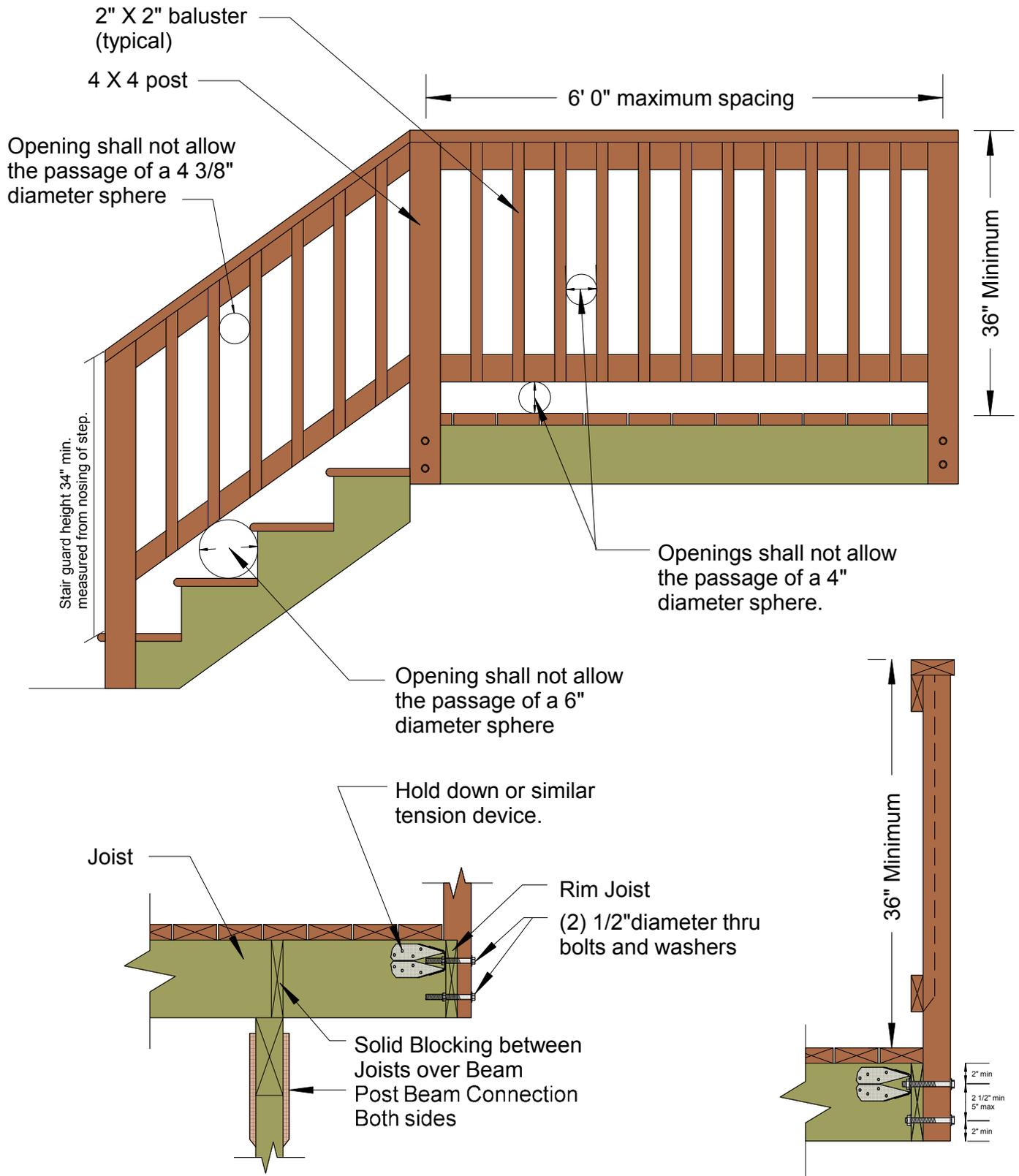
TYPICAL FLOOR PLAN



Decks - Lateral Load Attachment



**Lateral Load Device Attachment
for all decks over 30" in height**



SPAN TABLE & FOOTING SCHEDULE FOR OUTSIDE DECKS ONLY

All Spans based on use of No. 2 Hem-Fir or better, incised and pressure treated.
Balconies and Decks 40 psf Live load + 10 psf Dead load = TT Load 50 psf

TABLE 1. Maximum Joist Spans

Spacing On Center	2 X 6	2 X 8	2 X 10	2 X 12
12" o.c.	9'- 6"	12'- 6"	15'- 11"	19'- 5"
16" o.c.	8'- 7"	11'- 4"	14'- 5"	16'- 10"
24" o.c.	7'-6"	9'- 6"	11'- 10"	13'- 9"

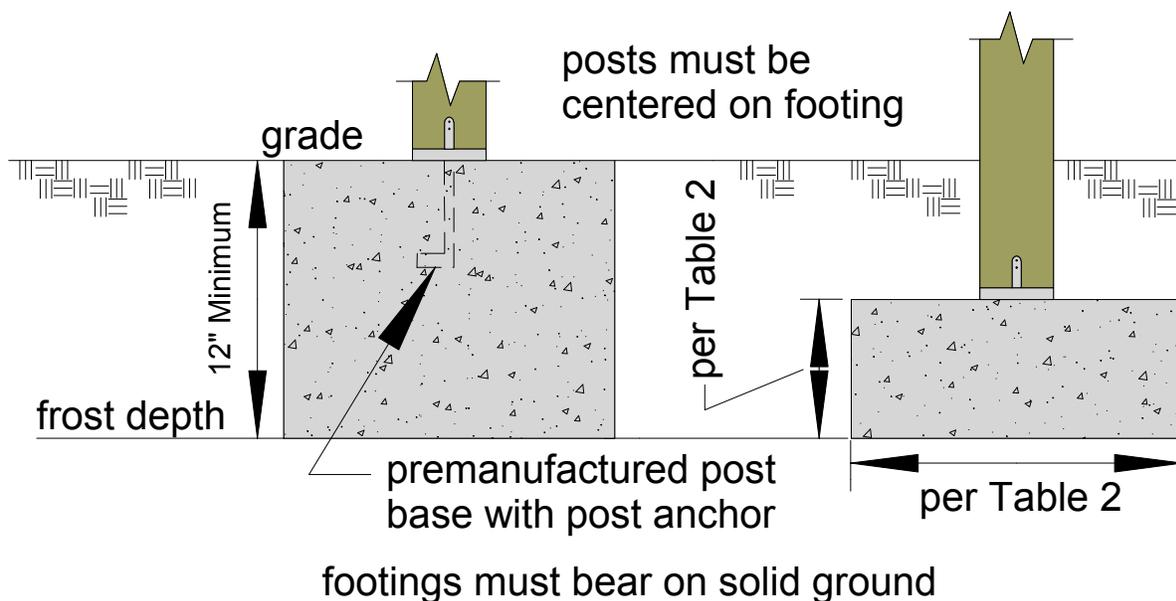
TABLE 2. Minimum Footing Sizes

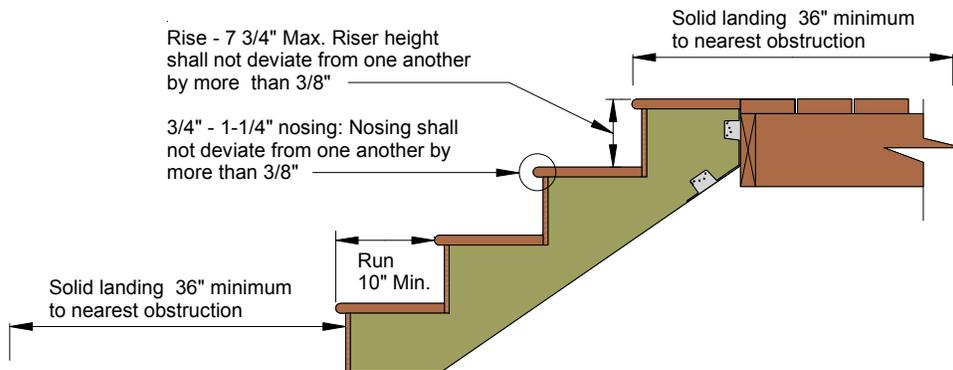
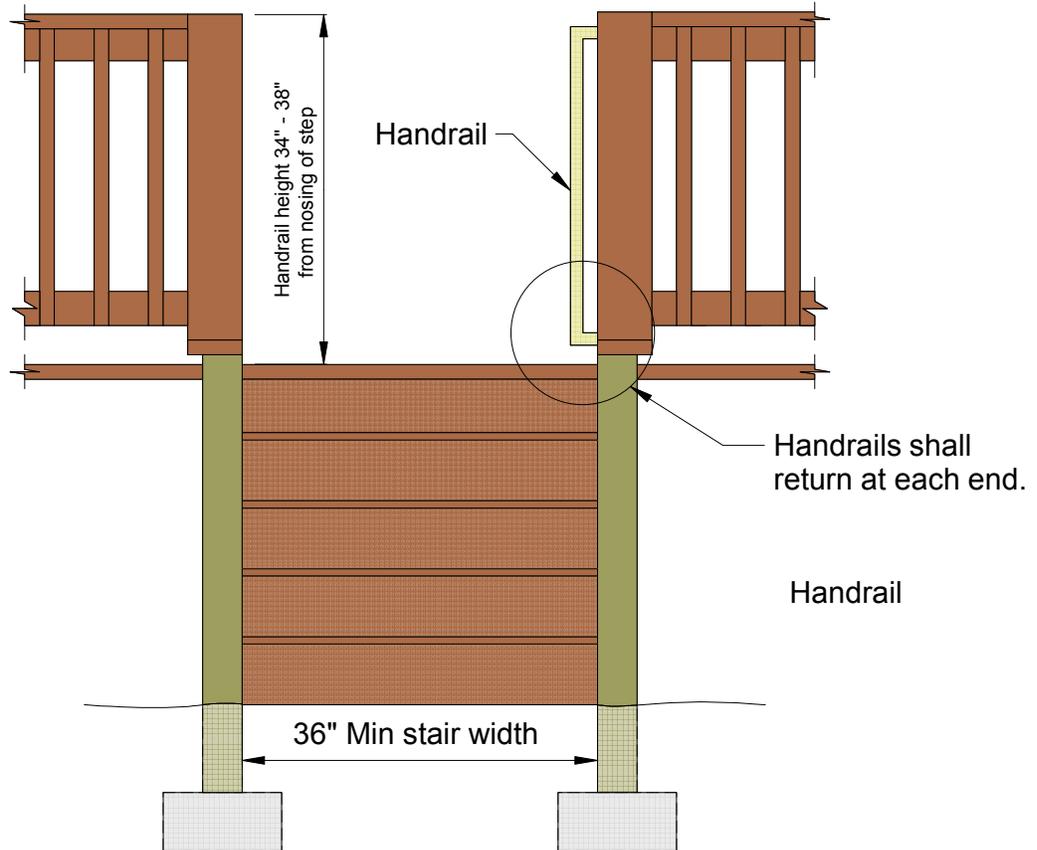
Type	Size	Notes:
A	13 X 13 X 6	Pier Blocks may be substituted for Type A footings only.
B	16 X 16 X 6	
C	18 X 18 X 6	

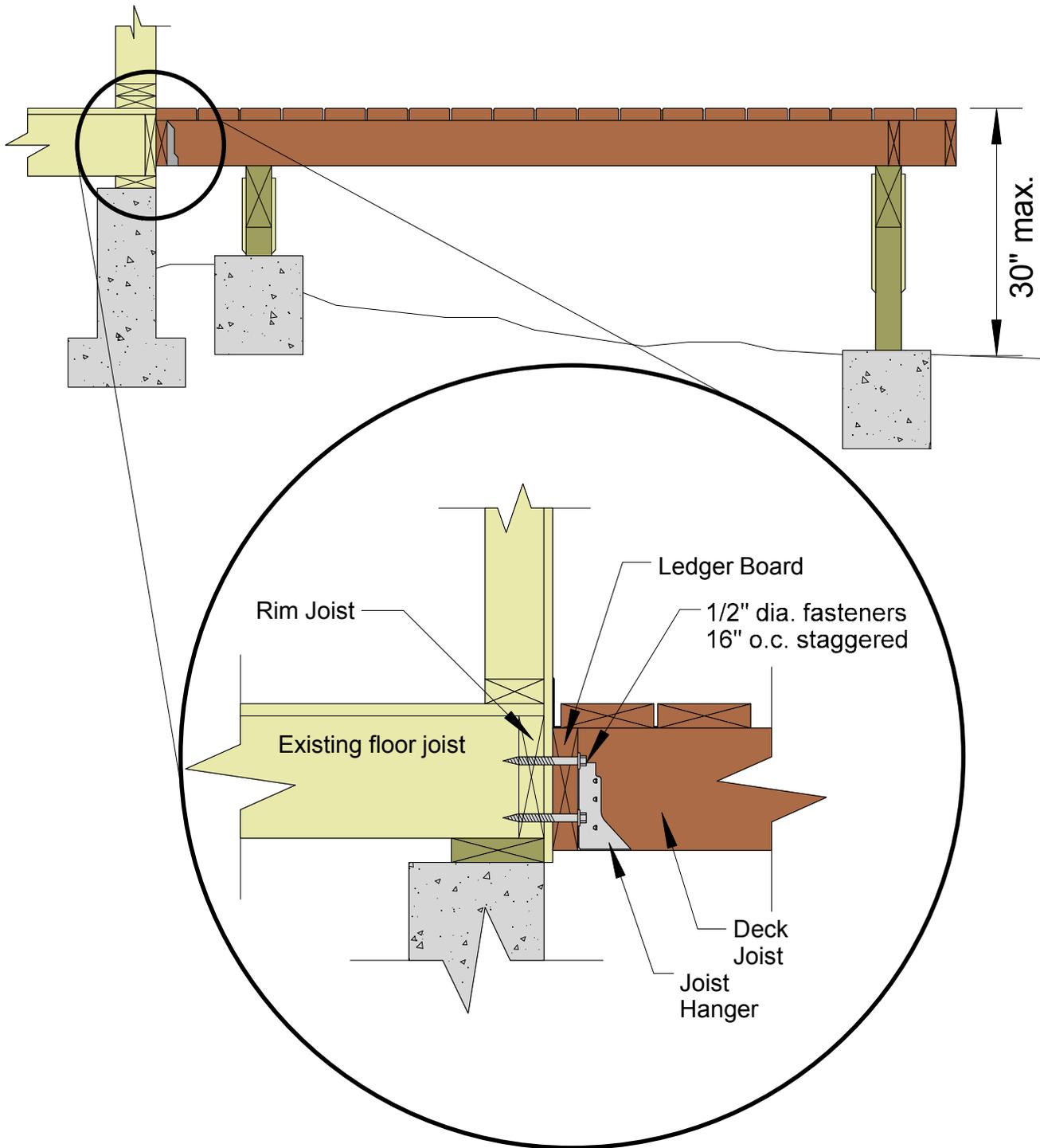
TABLE 3. Minimum Beam Spans (Tributary load from both sides of beam)

Beam Size	Joist Span and Footing Type									
	6'	Ftg Type	8'	Ftg Type	10'	Ftg Type	12'	Ftg Type	14'	Ftg Type
4 X 6	6'- 3"	A	5'- 5"	A	4'- 10"	A	4'- 5"	B	4'- 1"	B
4 X 8	8'- 2"	B	7'- 1"	B	6'- 4"	B	5'- 10"	B	5'- 5"	B
4 X 10	10'- 0"	C	8'- 8"	C	7'- 10"	B	7'- 2"	C	6'- 7"	C
4 X 12	11'- 8"	C	10'- 2"	C	9'- 1"	C	8'- 4"	C	7'- 8"	C

TYPICAL FOOTING OPTIONS







**Ledger Attachment for Free Standing
Decks or decks 30" in height or less**