



REQUIREMENTS

- Depth of Support Posts and Spacing:** The holes for support posts for a wood deck must be 42” below grade and 6” x 6” posts shall not be spaced more than 8’ feet apart. The pier diameter shall be 12” of concrete. A 16” diameter concrete pier is required if the post is placed in the pier. Lumber spans for decks must be 40-pound live loads.
- Excess spoils from deck/pier excavation** must be removed from property. A fill permit along with a topographical survey shall be required if the excess fill is to be used on the property. Provide positive drainage below the deck away from house and provide a vegetation barrier below a grade level deck under gravel.
- Joists & Decking:** Plastic composite decking shall comply with R507.2.2. Blocking for cantilevered joists required. R507.6 deck joist spans shall comply with R507.6. Ledge board flashing shall comply with R703.4 & R507.2.4.
- A guardrail not less than 36” high shall be required for any deck over 30” above finished grade. In addition, the baluster spacing must not allow a 4” diameter object to pass. Hold-down anchors are required at all guard post corners and lengths over 8 feet.
- Stairs must be required for any wood deck over 8” above finished grade. The maximum rise is 7 ¾” and the minimum tread depth is 10 inches. Open raisers are permitted, provided that the openings between treads does not permit the passage of a 4” diameter sphere.
- Handrails are required for any set of stairs 30” or more above finished grade. Deck greater than 2’ above grad shall be provided with diagonal bracing.
- Deck shall be located in strict accordance with the regulations specified in the Bartlett Zoning Ordinance. Decks are is not permitted on or over any easement.

WHAT YOU NEED TO APPLY

- Plat of Survey** showing proposed location of deck/above grade/grade level (drawn to scale).
- Completed **Deck Construction Checklist** form.
- Construction drawing** showing (see attached illustrations for reference)
 - size, length, and spacing of all floor joists
 - size, length, and spacing of any beams and their support (posts)
 - how deck and framing members are to be supported at the house
 - size and location of post holes
 - size of decking material (what you will be walking on)
 - guard rail design
 - stairs and hand rail design
 - complete deck construction
 - post hole spacing. Post holes will not be more than 8 feet apart parallel to house.
- Signed contract** when using a licensed contractor.
- Permit fee** (see chart)

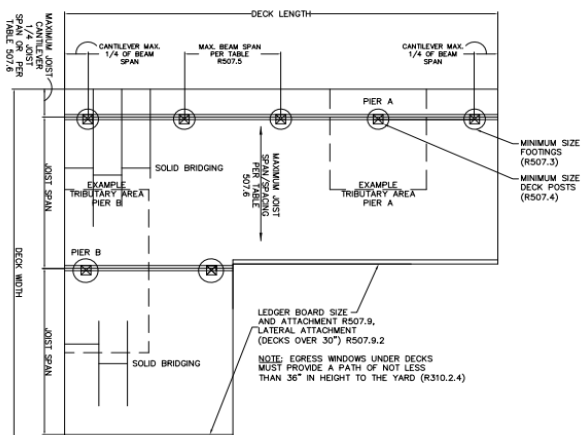


Estimated Cost of the Project	Permit Fee
Less than \$500.00	\$40.00
\$500.00 but less than \$1,000.00	45.00
\$1,000.00 but less than \$2,500.00	50.00
\$2,500.00 but less than \$5,000.00	60.00
\$5,000.00 but less than \$10,000.00	90.00
\$10,000.00 or more	12.00 per thousand

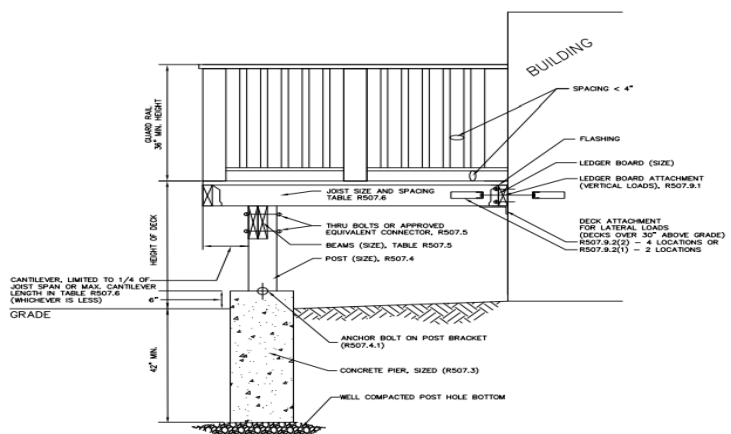
ADDITIONAL INFORMATION

- No work can begin until a building permit has been issued.
- If a contractor is performing the work, they must be registered with the Village of Bartlett as a licensed contractor.
- Post hole inspection is required before the concrete is poured. Call J.U.L.I.E at 811 before you dig.
- Framing inspection is required.
- Final inspection is required upon completion of work to close out the permit.

EXAMPLE OF PLAN



EXAMPLE OF SECTION





Deck Construction Checklist

Deck material _____

Size of holes (minimum diagonal 15" x 42" deep) _____

Post size (minimum 6" x 6") _____

Post spacing 8' on center parallel to house _____

Beam size _____ (beams must be bolted by using ½" nuts and bolts)

Ledger size _____ (ledgers must be lagged to house using ½" lags.)

Size of deck sections: 1: _____ 2: _____ 3: _____ (diagonal bracing required for deck over 24" above grade)

Is deck 18" or more above grade? _____

What is the highest point from grade? _____

If deck is 30" above grade or more the deck must have stairs _____, railing _____, and baluster _____.

Joist size _____

Railing height _____ (36" minimum)

Railing baluster spacing _____ (a 4" sphere cannot pass through)

Stair rise _____ (7-3/4" maximum)

Stair tread _____ (10" nose-to-nose)

COMPLETED FORM REQUIRED WITH APPLICATION



Figure 4. Beam Assembly Details.

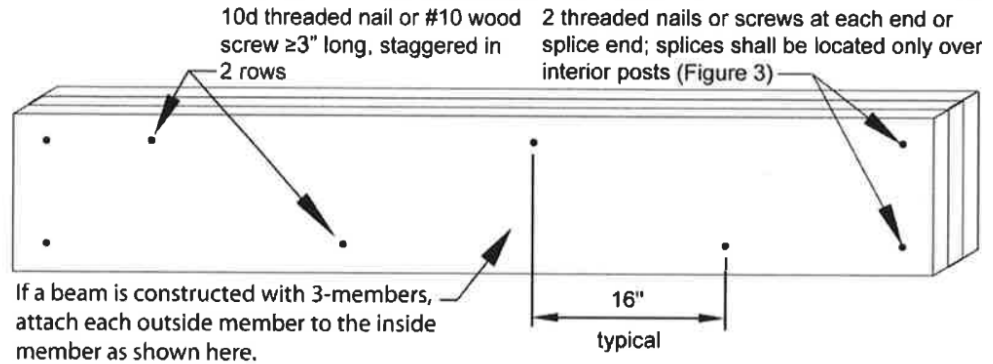


Figure 6. Joist-to-Beam Detail.

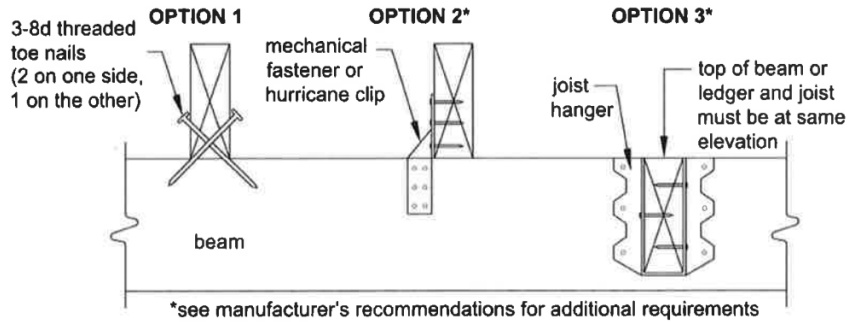


Figure 7. Typical Joist Hangers.

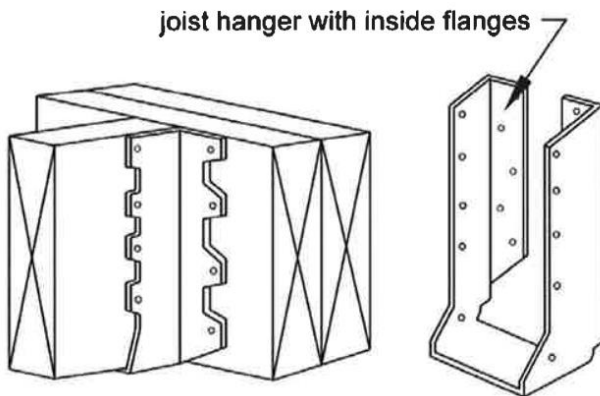




Figure 8A. Post-to-Beam Attachment Requirements.

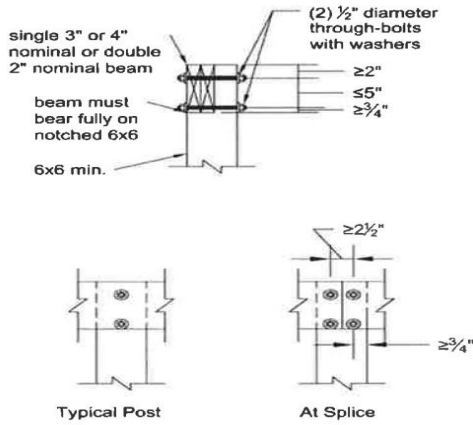


Figure 8B. Alternate Approved Post-to-Beam Post Cap Attachment.

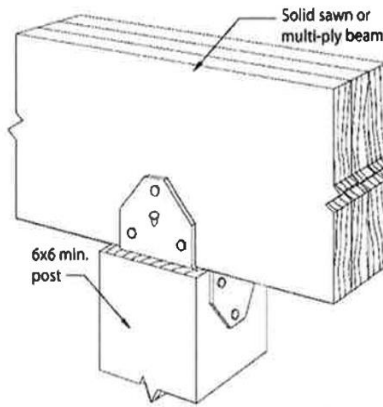


Figure 9. Prohibited Post-to-Beam Attachment Condition.

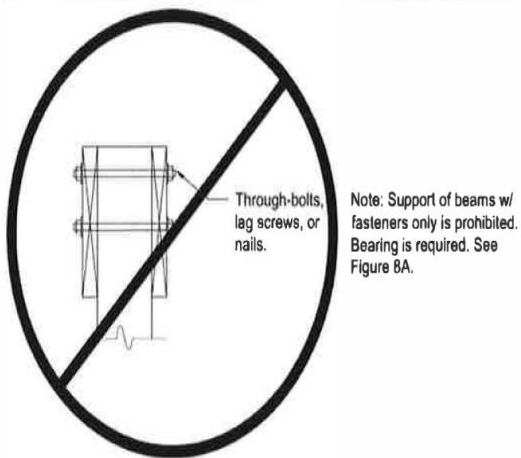
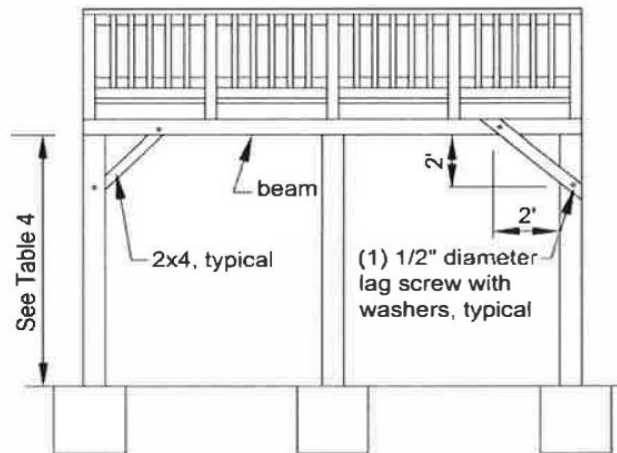


Figure 10. Diagonal Bracing.



DIAGONAL BRACING PARALLEL TO BEAM

Note: Diagonal Bracing is prohibited on center posts.



Figure 14. General Attachment of Ledger Board to Band Joist or Rim Joist.

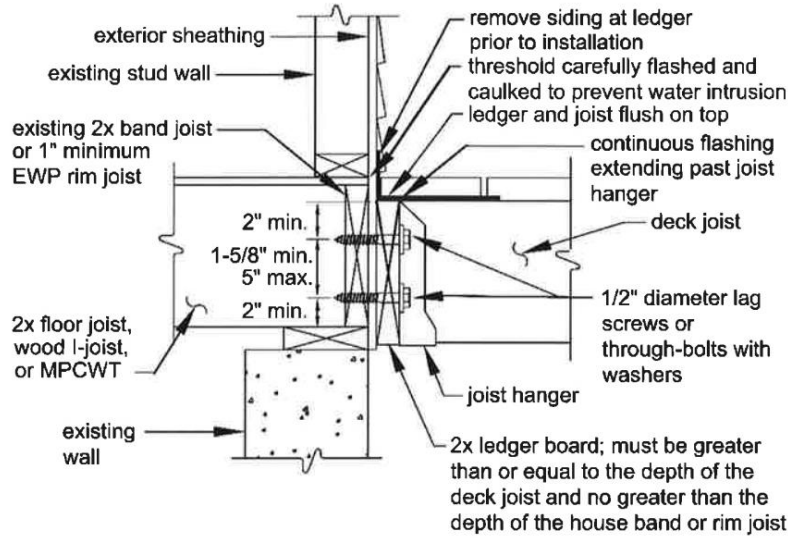


Figure 15. Attachment of Ledger Board to Foundation Wall (Concrete or Solid Masonry).

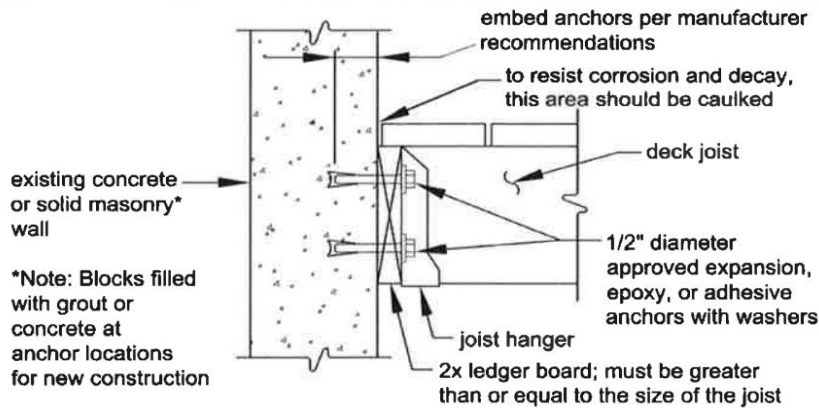




Figure 22. Lateral Load Device with Floor Joists Parallel to Deck Joists.

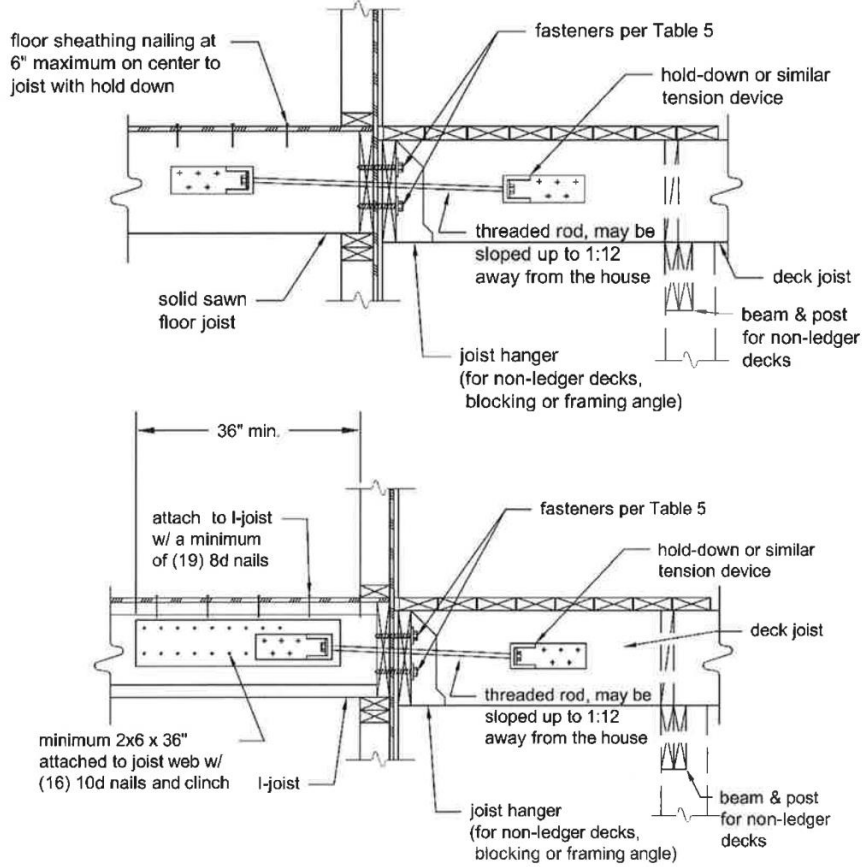




Figure 23. Lateral Load Device with Floor Joists Perpendicular to Deck Joists.

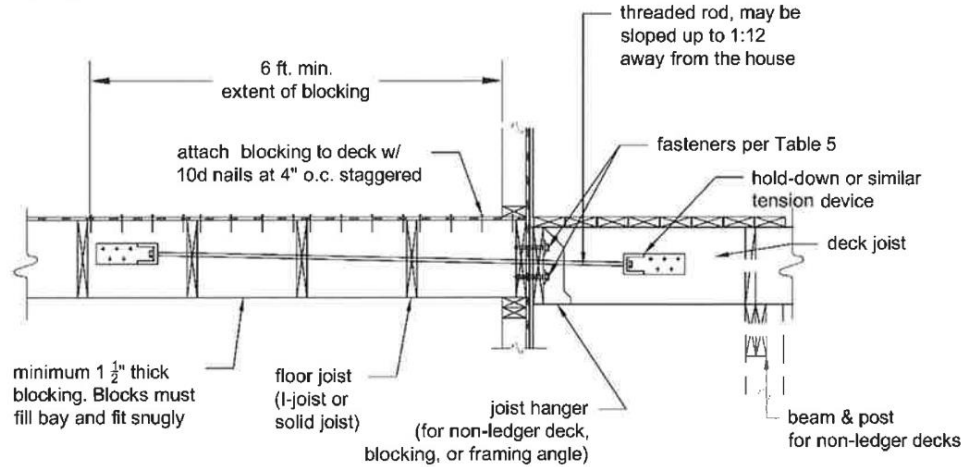


Figure 24. Example Guard Detail.

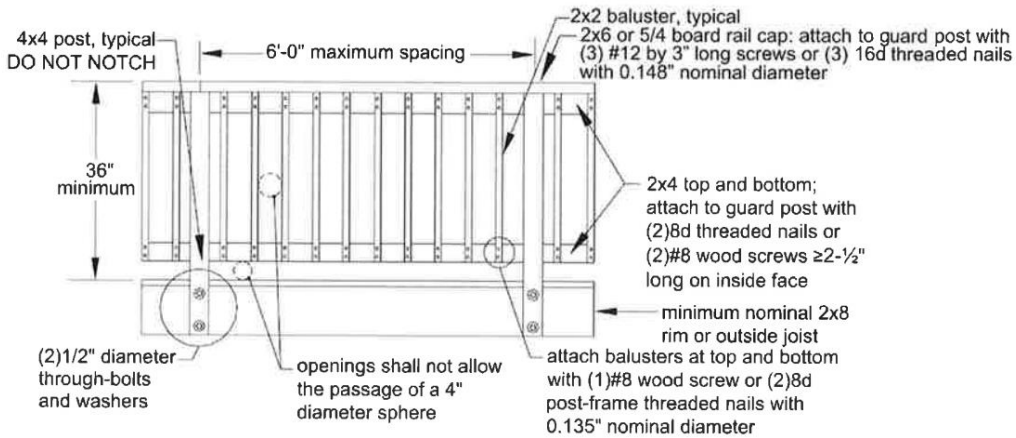




Figure 25. Guard Post to Outside-Joist Example.

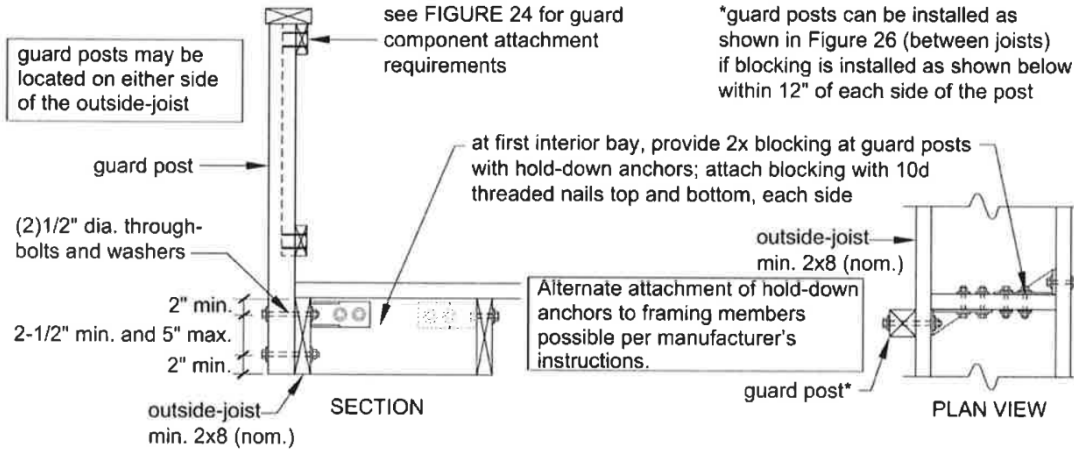


Figure 32A. Handrail Mounting Examples.

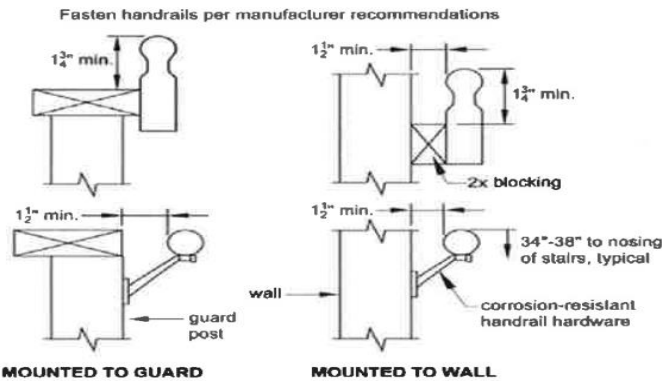


Figure 32B. Handrail Grip Size.

