

City of Valley Park

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DECK PERMIT GUIDE SHEET

- A. Structures to be designed for 40 psf live load (30 psf if access is from a bedroom only.)
- B. All wood material to be naturally durable hardwood or approved corrosion resistant materials or coating.
- C. Flooring minimum requirements: 1 inch thick; 4 inches in width.
- D. Flooring maximum requirements: 3/8 inch spacing between dried materials.
- E. Cantilevered areas shall not exceed two times the width of the floor joist unless engineered.
- F. When finished floor elevation exceeds 30 inches above grade, a guardrail at least 36 inches in height is required.
- G. Ledger boards and band boards to be of the same dimension or larger as the floor joists.
- H. Ledger boards to be attached to existing structure with 1/2" diameter bolts or lag screws, which must pass through band boards or into concrete walls with approved anchors. Spacing of anchors to shall be 12" from each end and two feet on center.
- I. Minimum support post size:
 - a. 4 x 4 - up to 12 feet above grade.
 - b. 6 x 6 - over 12 feet above grade.
- J. Support posts shall not exceed 8 feet on center.
- K. All piers to be at least 2 times the width of the support post (can flare to 12" at bottom), extend a minimum of two feet into undisturbed soil and at least 30" below grade.
- L. Provide 2 complete sets of plans drawn to scale a minimum scale of 1/4" = 1' Plans shall include:
 - a. Site plan showing location of improvement in relation to the property lines and existing structures. Shall all setback lines and easements. Must be signed and sealed by a Missouri registered land surveyor.
 - b. All elevations: front, sides, and/or rear views,
 - c. Height above grade for all walking surfaces,
 - d. All lumber species, grades, and dimensions,
 - e. Attachment diagrams and specifications of:
 - i. Ledger board to existing structure;
 - ii. Floor joist spacing;
 - iii. Support beams and beam to post connection details.
 - f. Stair, handrail, and guardrail diagrams and specifications:
 - i. Minimum 10" tread depth;
 - ii. Riser not to exceed 7 3/4"
 - iii. Triangular opening formed by riser, tread, and bottom rail must be small enough to prohibit the passage of a 6" sphere;
 - iv. Minimum 36" guardrail (where required);
 - v. Handrail height to be 30" = 38" above nose of tread;
 - vi. Post anchors to be set according to manufacturer's instruction.
 - vii. Handrail must be graspable and be of one of the profiles on the attached sheet, unless approved by the Code Official.
 - viii All unsupported stair stringers shall have metal straps.