

This handout is intended only as a guide and is based in part on the 2015 Minnesota Residential Code, City ordinances, and good building practice. While every attempt has been made to insure the correctness of this handout, no guarantees are made to its accuracy or completeness. Responsibility for compliance with applicable codes and ordinances falls on the owner or contractor. For specific questions regarding code requirements, refer to the applicable codes or contact your local Building Department.

The following are examples of information that should be included on plans submitted for building permits for residential decks. They are *examples* only and should not be construed as being code compliant for every application. It is the responsibility of the homeowner or person preparing the plans to show in detail how they will build their deck. Some designs may require more detail than others.

Your deck plans should replicate *exactly* how you will build your deck. We will review your plans before we issue the building permit to identify code violations before you start work. The more detailed your plans, the more likely you avoid corrections in the field.

When you receive your permit, you will also be given one set of plans stamped "Approved". Once your plans are approved, you should not change your design without approval by the Stillwater Building Department. You should read through the approved plans to determine if the plan reviewer noted any corrections to your plan. If you have any questions regarding any of the corrections, you should contact us before proceeding.

Plans created at home centers are unacceptable for plan review. These computer designs do not allow homeowners to duplicate conditions at their home. Applications submitted with these types of plans will be returned to the applicant.

The City of Stillwater has a detailed handout on deck construction and it is recommended that you obtain a copy of the handout for further direction.

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CHECKLIST FOR DECK PLANS

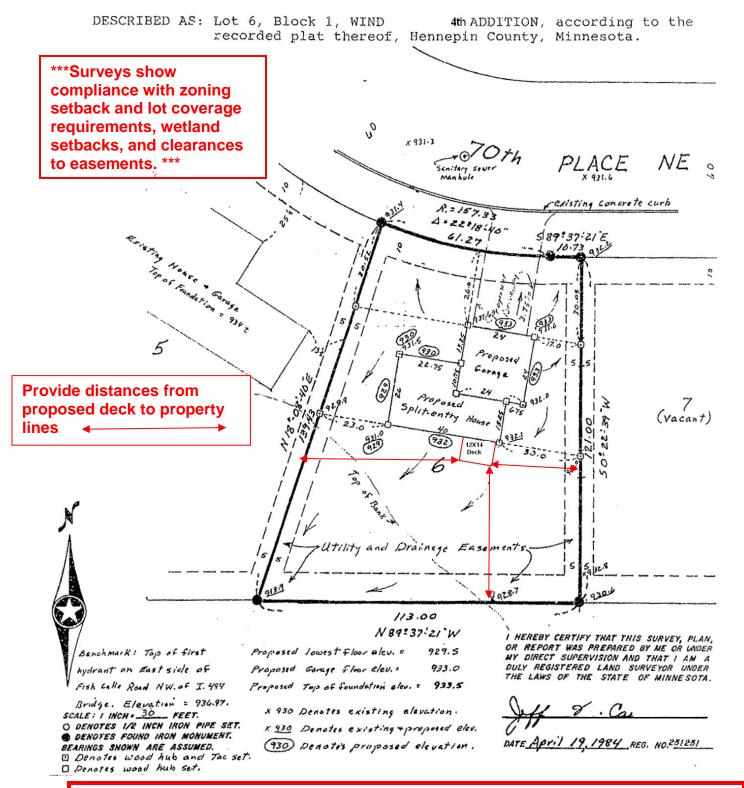
Site Plan	Section(s)
 Street address and/or legal description shown North arrow shown Plan drawn to useable scale and scale used shown 	Section view(s) from bottom of footing to top of guard to show railing details; floor framing orientation; joist/beam orientation and bearing; column locations; connections; footing design, size, and depth; and
Size of existing buildings shownAll lot dimensions and pin locations shown	height of deck floor above grade.
Location and size of proposed deck shown	Details
☐ Distance to all lot lines from existing buildings	Flashing at the ledger
and proposed deck	Joist bearing/hangers
Construction Plans	Ledger connection (Caution for dwelling floor
Plans drawn to useable scale	cantilevers) Fasteners/connectors consistent with lumber and
Scale indicated on plan	decking used
Plan neat and legible	Column/beam connection
_	Column/footing connection
Elevation (This could be illustrated on section drawings)	Type of decking and orientation (Caution for 5/4 or composite decking for spans more than 16" o.c. or
☐ Show side and front view of deck in relation to	installed diagonally
grade and dwelling	Research report required for decking other than wood
Include railing height and design	Stair stringer connection
Framing Plan	Lateral bracing
☐ Floor joist size and spacing including species	Stairs
and grade	☐ Width of stairs ☐ Rise/run w/tolerance shown
Orientation of floor joists	Number and size of stringers
Cantilever of joists	Open riser design
Bearing points for all joistsSize and location of all beams including	Type and size of tread consistent with stringer spacing
species and grade	(Caution for decking use)
Cantilever of beams	Connection method for treads to stringers
Size and location of ledger board including	Handrails shown for stairs with 4 or more risers
species and grade	☐ Handrail height shown on plan
Size and location of all columns including	☐ Handrail profile detailed☐ Landing at bottom of stair
species and grade	Show any doors or windows adjacent stairs and
 Track all floor loads thru beams to columns to footings 	landings.
Location of stairs	
Changes in elevation of deck floors or landings	Guards
Unusual framing issues such as cantilevers of	☐ Guard height and opening dimensions
the dwelling floor	Guard design/materials
	☐ Guard attachment
Ledger Details	
☐ Framing method and orientation of existing	
dwelling floor framing.	Date:
Method of meeting lateral load connection	
requirements Spacing, location, and type of bolts or lags	Job Address:
used to attach ledger.	
assa to attach loagon.	
Footings (This information may be	
included on section or framing plans)	
☐ Footing depth and design	
Footing width at base consistent with load for	

each footing location.

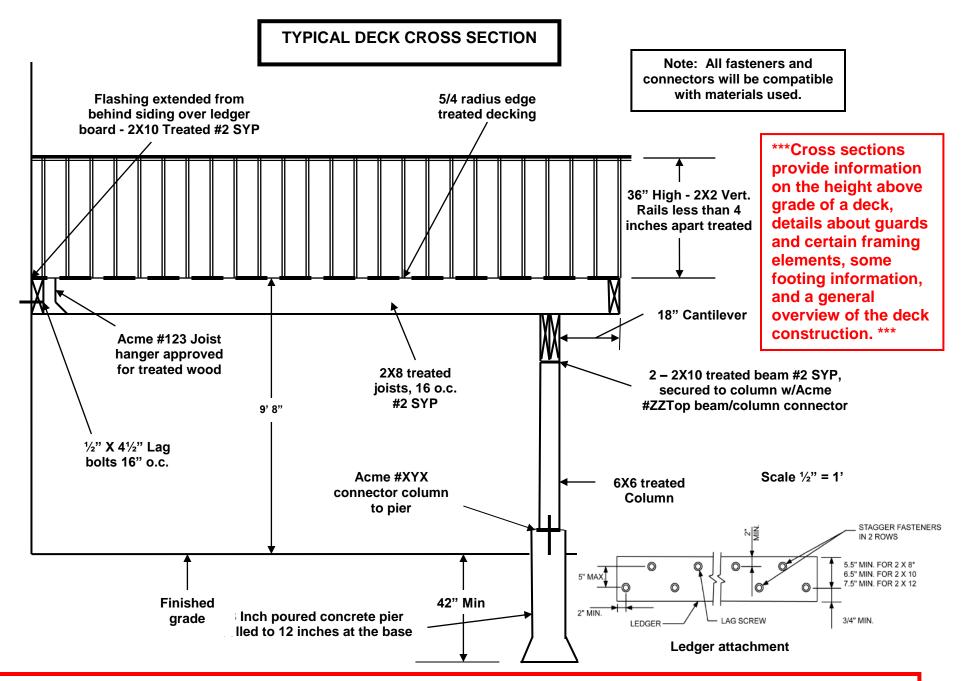
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ASSOCIATES SURVEYORS, INC.

CERTIFICATE OF SURVEY FOR: K Builders



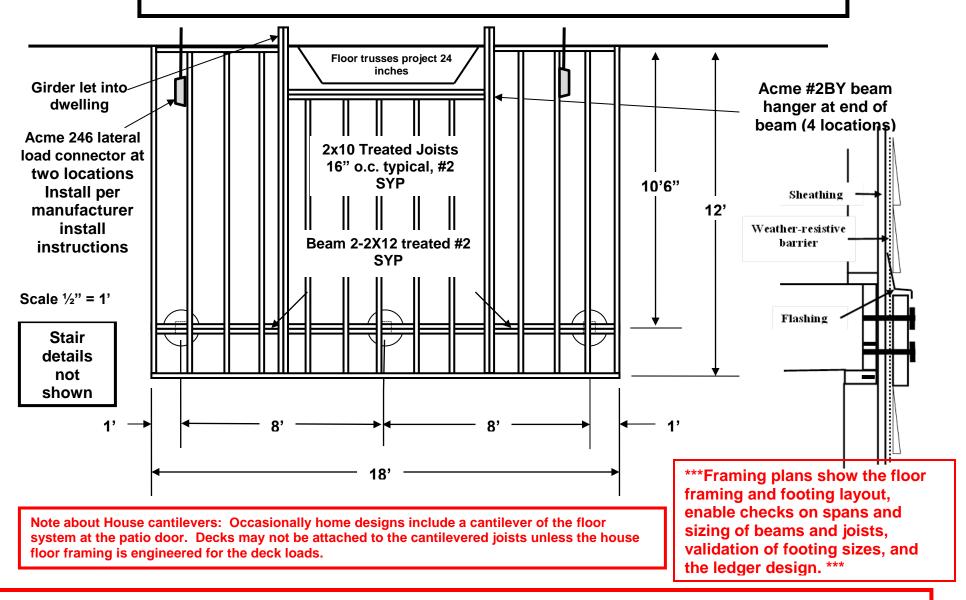
WARNING: THIS IS AN ILLUSTRATION ONLY. IT IS INTENDED TO SHOW SOME OF THE INFORMATION THAT SHOULD BE INCLUDED ON YOUR DECK PLANS. IT IS <u>NOT</u> INTENDED TO SHOW COMPLIANCE WITH ANY CODES THAT MAY APPLY. CHANGES IN THE HEIGHT AND SIZE OF A DECK WILL CAUSE VARIATIONS IN CODE REQUIREMENTS.



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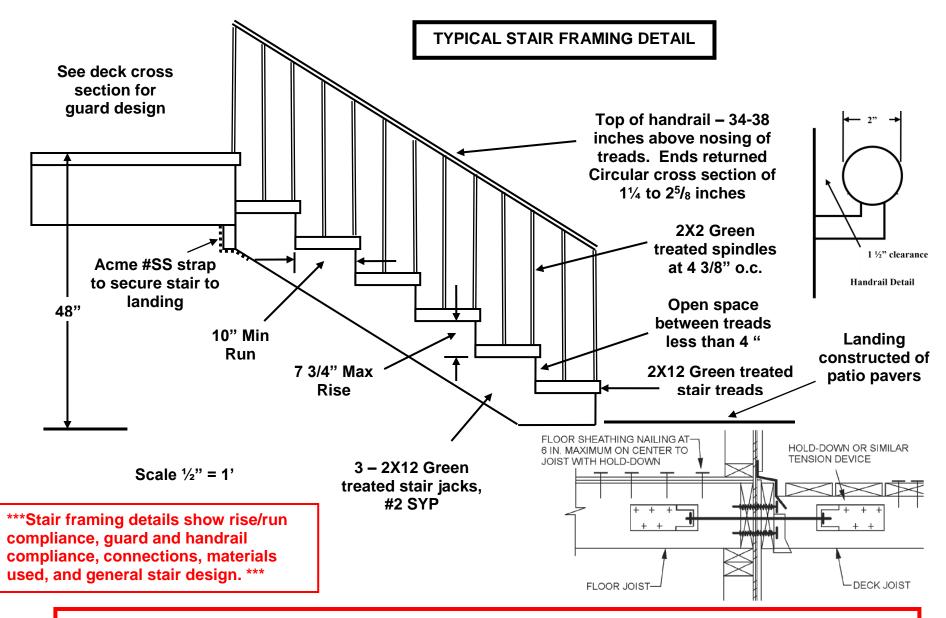
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TYPICAL DECK FLOOR FRAMING PLAN, BEAM LOCATION, AND FOOTING LAYOUT



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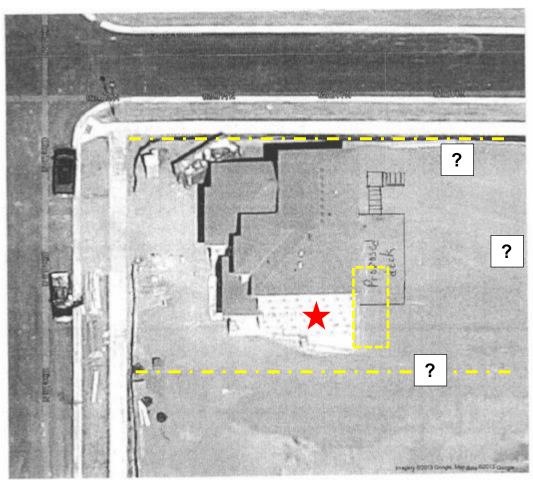
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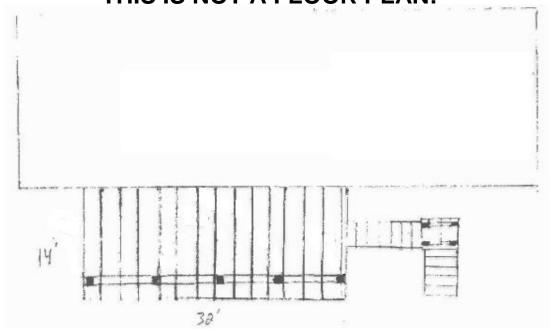
THIS IS NOT A SITE PLAN!



- NO LOT LINES ARE SHOWN
- THE DASHED YELLOW LINES HAVE BEEN ADDED FOR INFORMATIONAL PURPOSES AND ARE THE APPROXIMATE LOCATION OF THE SIDE LOT LINES.
- NO DIMENSIONS ARE SHOWN (LOT, EXISTING BUILDINGS, PROPOSED DECK)
- HOW FAR DO YOU THINK THIS DECK IS FROM LOT LINES?
- THE PHOTO IS AN OBLIQUE VIEW OF THE DWELLING. THIS IS ACTUALLY THE SIDE OF THE HOME.
- IT APPEARS THAT THE DECK MAY BE SOME DISTANCE FROM LOT LINE WHEN IN FACT IT WAS BUILT TO THE EDGE OF THE DWELLING (ABOUT 8 FEET FROM THE LOT LINE).
- BECAUSE THE PHOTO IS AN OBLIQUE VIEW, IT IS IMPOSSIBLE TO DETERMINE THE APPROXIMATE LOCATION OF THE PROPOSED DECK FROM THE PHOTO.
- THE YELLOW DASHED RECTANGLE IS A CLOSER ESTIMATE OF THE LOCATION OF THE DECK.

YOUR PLANS SHOULD NOT LOOK LIKE THESE!





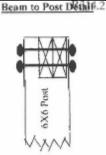
- THIS IS A SKETCH AND NOT A FLOOR PLAN
- THE PLAN SHOWS THE DECK SOME DISTANCE FROM THE LEFT LINE OF THE DWELLING. IT WAS ACTUALLY BUILT TO THE DWELLING LINE.
- THE PLAN DOES NOT APPEAR TO SHOW THE BEAMS CANTILEVERED AT THE ENDS. IT WAS ACTUALLY BUILT WITH CANTILEVERS OF ABOUT ONE FOOT.
- NOTES ELSEWHERE INDICATE JOIST SPACING OF 16" O.C. THIS PLAN SHOWS SOMETHING IN EXCESS OF 24" O.C.
- NO DIMENSIONS REGARDING CANTILEVER
- NO DIMENSIONS REGARDING COLUMN LOCATIONS
- NO ATTACHMENT DETAILS FOR STAIRS
- NO INFORMATION REGARDING LANDING
- NO INFORMATION REGARDING DISTANCE FROM STAIRS AND LANDING TO DWELLING PROVIDED
- NO INFORMATION REGARDING LEDGER MATERIAL OR METHOD OF ATTACHMENT
- NO INFORMATION REGARDING SIDING AND SHEATHING ON DWELLING
- NO INFORMATION REGARDING FLASHING
- NO ELEVATION PROVIDED
- NO INFORMATION ON ADJOINING GLAZED OPENINGS PROVIDED
- NO HEIGHT ABOVE GRADE PROVIDED
- HOW CAN FOOTING SIZES BE DETERMINED FROM THIS SKETCH?

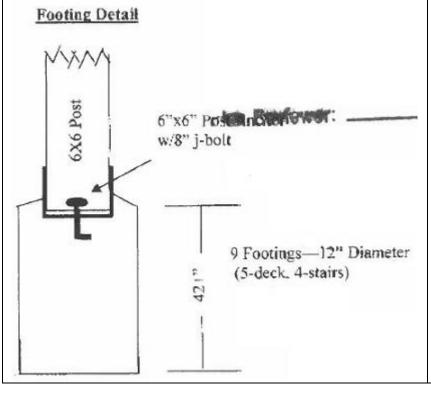
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Information

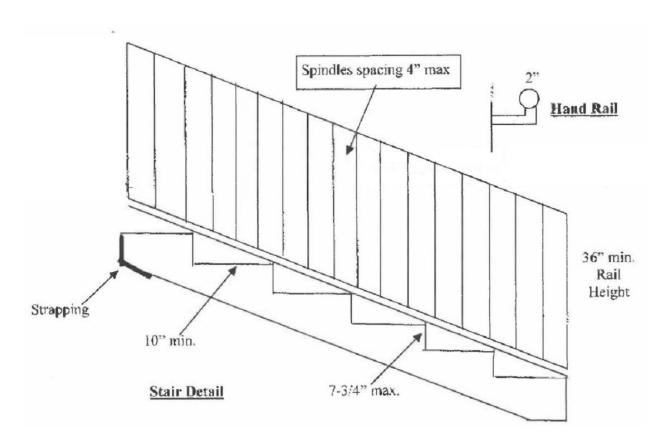
Framing: Treated—2X10
Joists—16" OC
Posts—Treated 6x6
Beam—2-2x10
Decking: 5/4" Ultradeck composite
Cantilever: 16", 12" on ends
Joist Hangers: Galvanized
Fasteners for Ledger: Ledgerlok
Ultradeck rail with alum. spindles
Triple coated deck screws
Stair Treads: 2-5/4" Ultradeck composite
Stair joists—12" OC

- CANTILEVER INTENT NOT CLEAR
- HANGER MATERIAL NOT CONSISTENT WITH WOOD TREATMENT
- NO SPECS ON LEDGER
- NO SPECS ON FLASHING
- SPECS ON LEDGERLOKS NOT PROVIDED
- LOCATION OF LEDGERLOCKS NOT PROVIDED
- NO INFORMATION ON FLOOR FRAMING OF DWELLING TO WHICH LEDGER ATTACHED
- NO SPECS ON RAILING
- NO INSTALLATION INSTRUCTIONS FOR RAILING
- NO SPECS FOR STAIR STRINGER MATERIAL
- METHOD OF CONNECTING BEAM TO COLUMN NOT SPECIFIED OR IDENTIFIED
- HEIGHT OF COLUMN NOT INDICATED





- •IS THE POST REALLY INSERTED INTO THE FOOTING?
- WHAT IS THE METHOD USED TO ANCHOR THE POST TO THE FOOTING?
- HOW WAS THE SIZE OF THE FOOTINGS DETERMINED?
- WHERE IS GRADE?



- IF THE RISERS ARE AT THE 7 3/4" MAXIMUM, THE RUN SCALES TO 24"
- WHAT IS "STRAPPING"?
- HOW WILL THE "HAND RAIL" CONNECT TO THE "RAIL"?
- AT WHAT ELEVATION WILL THE "HAND RAIL" BE?
- WHAT IS THE TOTAL RISE OF THE STAIRS?
- WILL OPEN RISERS BE USED?
- HOW WILL THE STRINGERS BE ATTACHED TO THE DECK?
- WILL THE BOTTOM RISER ACTUALLY BE 50% HIGHER THAN THE OTHER RISERS?
- HOW MUCH SPACE WILL OCCUR IN THE TRIANGULAR AREA BETWEEN TREAD, RISER, AND BOTTOM OF RAIL?
- HOW WILL THE RAIL BE SECURED TO THE STAIRS?
- ARE RAILS PROPOSED FOR BOTH SIDES OF THE STAIRS AND FOR BOTH FLIGHTS?