



City of Kenosha  
 Department of Neighborhood Services and Inspections  
 625 52nd Street, Room 100, Kenosha, WI 53140  
 Phone: (262) 653-4263, Fax: (262) 653-4254

## CONSTRUCTION GUIDELINES STAIRS / PLATFORMS / GUARDRAILS / EXIT DOORS

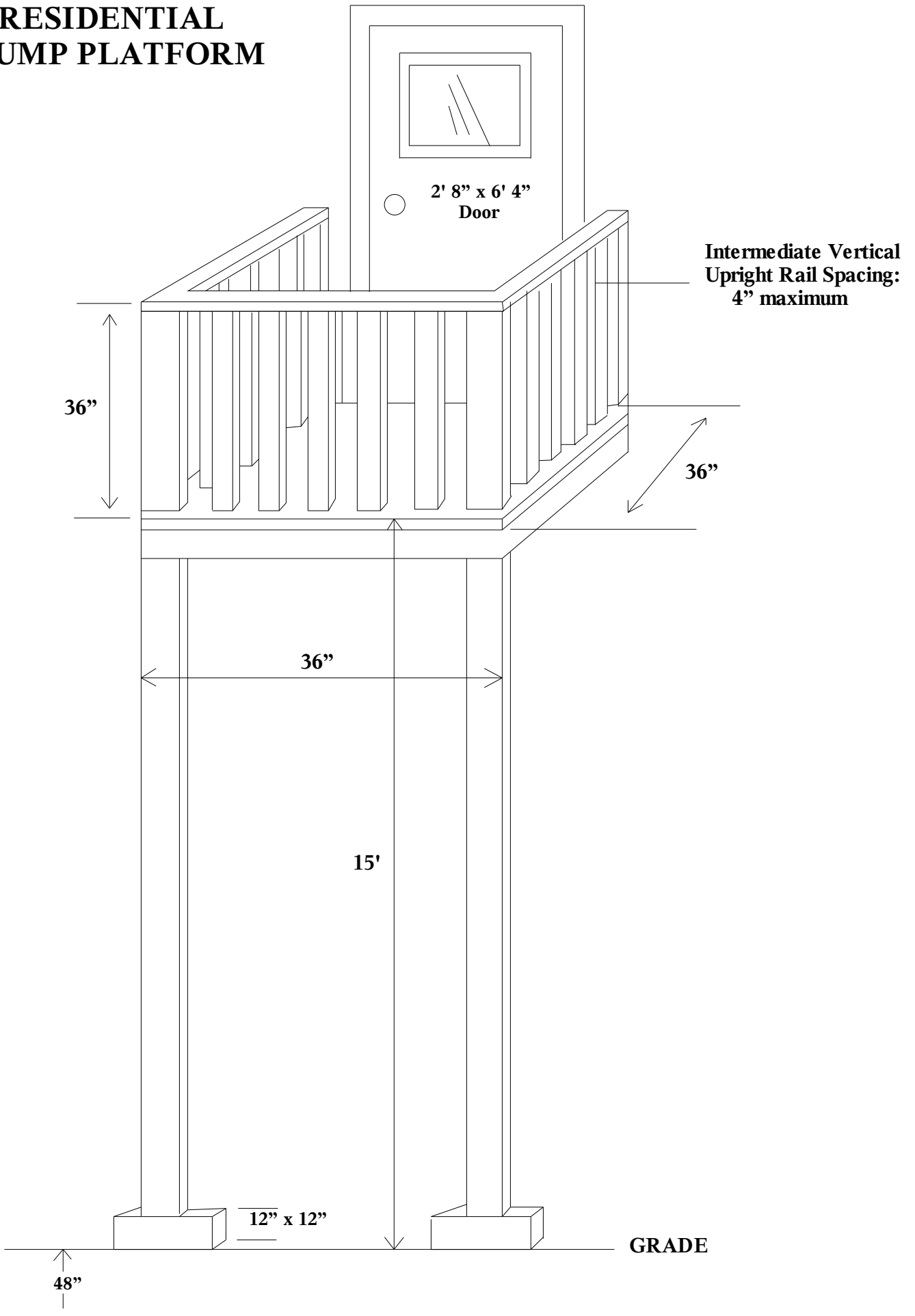
	1 & 2 FAMILY DWELLING	MULTI-FAMILY (3 OR MORE UNITS)	COMMERCIAL, MANUFACTURING, INSTITUTIONAL
<b>STAIR WIDTH</b>	36" minimum	36" minimum	44" minimum
<b>TREAD WIDTH</b>	9" minimum	10" minimum	11" minimum
<b>RISER HEIGHT</b>	8" maximum	7 3/4" maximum No open risers	4" minimum 7" maximum No open risers
<b>HANDRAIL HEIGHT</b> (not required if less than three risers)	30" min / 38" max 1 1/2" wall clearance	34" min / 38" max 1 1/2" wall clearance	34" min / 38" max 1 1/2" wall clearance
<b>HANDRAIL DIMENSION</b> (Note: 2x4's and 2x6's are not permitted for use as a handrail)	<b>Round:</b> 2" maximum <b>Rectangle:</b> 2 7/8" (grip) maximum	<b>Round:</b> 1 1/2" minimum <b>Round:</b> 2" maximum <b>Rectangle:</b> 2 7/8" (grip) maximum	<b>Round:</b> 1 1/2" minimum <b>Round:</b> 2" maximum <b>Rectangle:</b> 2 7/8" (grip) maximum
<b>HEADROOM (Stairs)</b>	76" minimum	80" minimum	80" minimum
<b>LANDINGS</b>	36" x 36" minimum	36" x the width of stairs minimum	44" x the width of stairs minimum
<b>GUARDRAIL HEIGHT</b> (not required on 24" or less elevation)	36" minimum	36" minimum	42" minimum
<b>INTERMEDIATE VERTICAL UPRIGHT SPACING</b>	4" maximum	4" maximum	4" maximum
<b>EXIT DOOR SIZE</b>	36" x 80" minimum	36" x 78" minimum	36" x 80" minimum
<b>JUMP PLATFORM</b>	36" x 36" minimum <b>Maximum grade clearance:</b> 15'	14 sq. ft. with minimum dimension of 3' <b>Maximum grade clearance:</b> 15'	14 sq. ft. with minimum dimension of 3' <b>Maximum grade clearance:</b> 15'

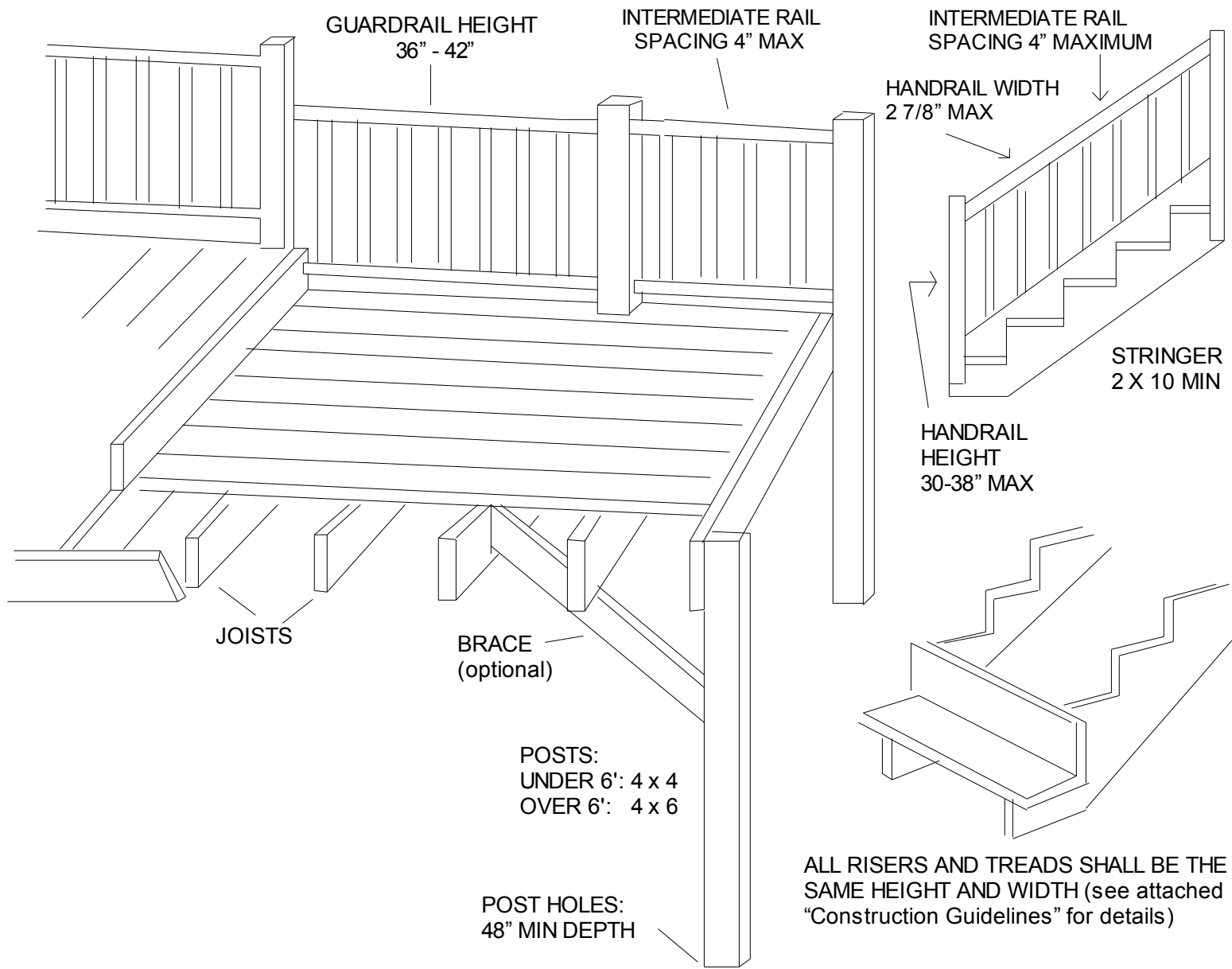
## RAMPS

**COMM 21.045 RAMPS.** Every exterior or interior ramp which leads to or from a required exit shall comply with the requirements of this section.

- (1) **SLOPE.** Ramps shall not have a gradient greater than 1 in 8 or one foot of rise in eight feet of run. Walkways with gradients less than 1 in 20 or one foot of rise in twenty feet of run are not considered to be ramps.
- (2) **SURFACE AND WIDTH.** Ramps shall have a slip-resistant surface and shall have a minimum width of 36 inches measured between handrails.
- (3) **HANDRAILS.** Every ramp which overcomes a change in elevation of more than 8 inches shall be provided with at least one handrail and with handrails on all open sides of ramps.
  - (a) Ramps which have a gradient greater than 8.33% or 1:12 or one foot rise in twelve feet of run and which overcome a change in elevation of more than 24 inches, shall be provided with handrails on both sides.
  - (b) Handrails shall be mounted so that the top of the handrail is located between 30 to 38 inches above the ramp surface.
  - (c) Open-sided ramps shall have the area below the handrail protected by intermediate rails or an ornamental pattern to prevent the passage of a sphere with a diameter of 4 inches or larger.
  - (d) The clear space between the handrail and any adjoining wall shall be at least 1 ½ inches.
- (4) **LANDINGS.** A level landing shall be provided at the top, at the foot, and at any change in direction of the ramp. The landing shall be at least as wide as the ramp and shall measure at least 3 feet in the direction of travel.

# RESIDENTIAL JUMP PLATFORM



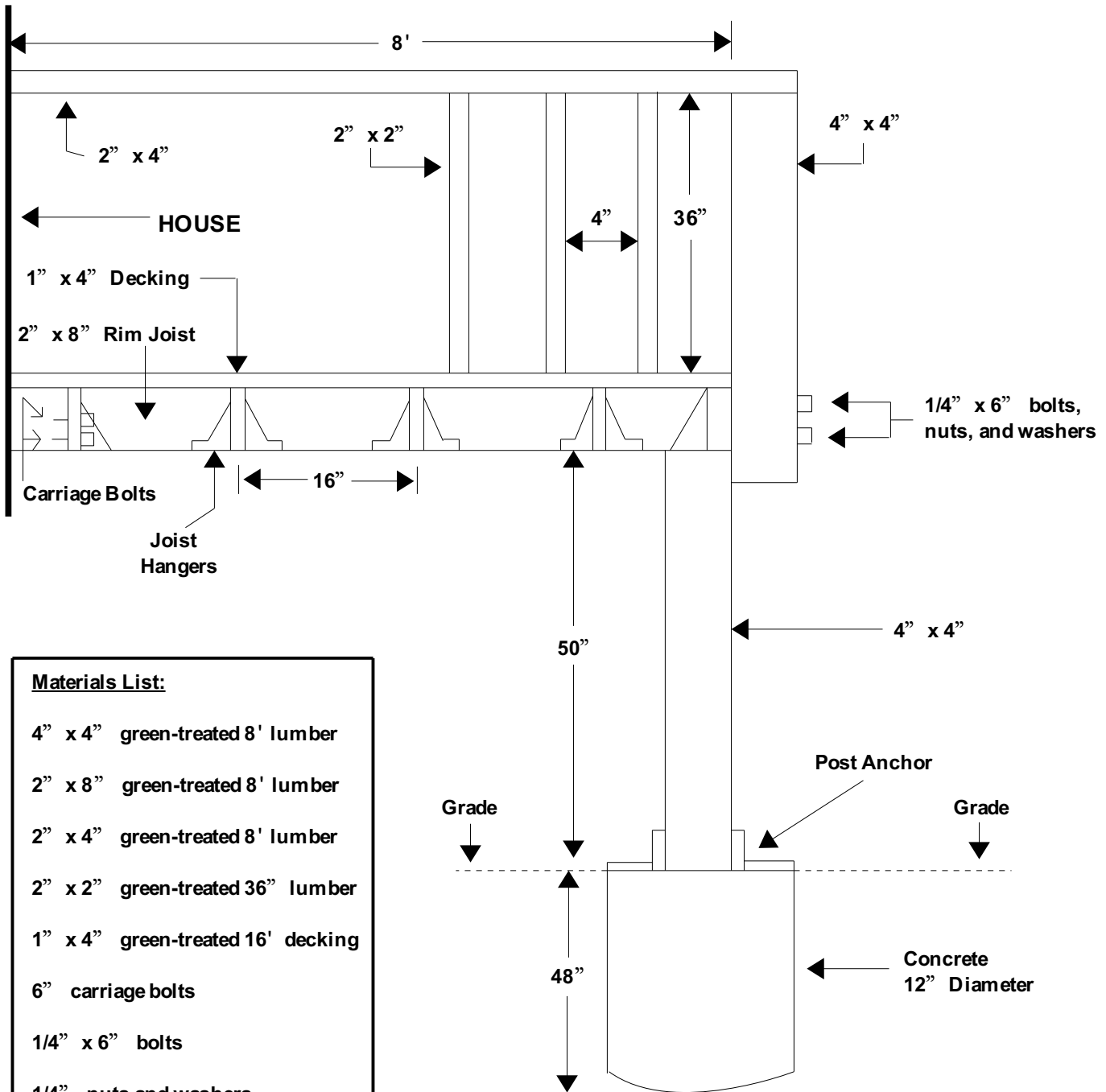


**MAXIMUM JOIST SPANS AND SPACING**

<b><u>JOIST SIZE</u></b>	<b><u>WOOD SPECIES</u></b>	<b><u>MAXIMUM SPAN</u></b>
For 16-inch Joist Spacing: 2 x 6	Douglas Fir	9' 9"
	Ponderosa Pine	8' 7"
2 x 8	Douglas Fir	12' 10"
	Ponderosa Pine	11' 4"
2 x 10	Douglas Fir	16' 5"
	Ponderosa Pine	14' 5"
For 24-inch Joist Spacing: 2 x 6	Douglas Fir	8' 6"
	Ponderosa Pine	7' 6"
2 x 8	Douglas Fir	11' 3"
	Ponderosa Pine	9' 11"
2 x 10	Douglas Fir	14' 4"
	Ponderosa Pine	12' 3"

**ALL LUMBER TO BE PRESSURE TREATED**

# EXAMPLE AND MATERIALS LIST FOR DECK (side view cut away)



- Materials List:**
- 4" x 4" green-treated 8' lumber
  - 2" x 8" green-treated 8' lumber
  - 2" x 4" green-treated 8' lumber
  - 2" x 2" green-treated 36" lumber
  - 1" x 4" green-treated 16' decking
  - 6" carriage bolts
  - 1/4" x 6" bolts
  - 1/4" nuts and washers
  - Post anchors
  - 1 lb. nails
  - 3 lb. nails

**For handrail shapes (from the Wisconsin Department of Commerce, Safety and Buildings Division) please see the following website:**

**[http://www.legis.state.wi.us/rsb/code/comm/comm020\\_app.pdf](http://www.legis.state.wi.us/rsb/code/comm/comm020_app.pdf)**