LAYING OUT THE STAIRS

1. Measure total rise (distance from top of joist to ground level).
2. Divide total rise by 12 and round to nearest whole number to get total number of risers needed. Dividing by 8 will give a steeper slope and decrease the total run.
3. Divide total rise by this number. This will give the height of each riser.
4. Multiply number of risers by 10" to get total run (distance from edge of deck to front of bottom step).

STAIR LAYOUT DETAILS

SLOPING TOP RAIL TO IMPROVE DURABILITY

POST

DECK

BEAM

APRON

TOP RAIL SLOPES

4 x 4 POST

1/2" BOLTS

1 1/2" MIN.

ALTERNATE POST ANCHORAGE

NOTE:
1. Weather resistant wood (i.e., Redwood) or preservative (CCA) pressure treated wood should be used. Use lumber that has been treated after preservative treatment will reduce warping.
2. Securely anchor base of post to railing on all 4 sides may be enough but if failure would cause hard fall, alternate anchorage should be considered.

CAUTION:
Rail height should be at least 36" and, for children, rail spacing needs to be narrow enough to prevent falling through but not be of a width that would catch a child's head.

SCALE