STAIRWAY REQUIREMENTS

1. STAIRWAYS SHALL BE 4 1/2 INCH MINIMUM BETWEEN HANDRAILS

2. ALL STEPS ON A FLIGHT OF STAIRS SHALL HAVE (UNIFORM RISER HEIGHTS AND UNIFORM TREAD DEPTHS). RISERS SHALL BE 4 INCHES (102MM) MINIMUM AND 11/2 INCHES (38MM) MAXIMUM. TREADS SHALL BE 11 INCHES (280MM) MINIMUM AND 12 INCHES (305MM) MAXIMUM MEASURED FROM FRONT EDGE OF TREAD TO FRONT EDGE OF TREAD BEYOND THE TREAD.".

3. OPEN RISERS SHALL NOT BE PERMITTED.

4. STAIR TREADS SHALL BE STABLE, PIRM, AND SLIP RESISTANT.

5. THE RADIUS OF CURVATURE AT THE LANDING EDGE OF THE TREAD SHALL BE 1 1/2 INCH (38MM) MINIMUM. NO RISER BEYOND THE LANDING EDGE CURVED OR BEVELED. RISERS SHALL BE PERMITTED TO SLOPE UNDER THE TREAD AT AN ANGLE OF 15 DEGREES MAXIMUM FROM THE VERTICAL. THE RADIUS OF CURVATURE AT THE LANDING EDGE OF THE TREAD SHALL BE 1 INCH (25MM) MINIMUM BEYOND THE TREAD BELOW.

6. HANDRAILS SHALL BE PROVIDED ON BOTH SIDES OF STAIRS.

7. OUTDOOR STAIRS AND OUTDOOR APPROACHES TO STAIRS SHALL BE DESIGNED SO THAT WATER WILL NOT ACCUMULATE ON WALKING SURFACES.

HANDRAIL REQUIREMENTS

1. HANDRAILS SHALL BE PROVIDED ON BOTH SIDES OF STAIRS AND RAMPS.

2. HANDRAILS SHALL BE CONTINUOUS WITHIN THE FULL LENGTH OF EACH STAIR FLIGHT OR RAMPS. INSIDE HANDRAILS ON SWITCHBACK OR DOODLED STAIRS OR RAMPS SHALL BE CONTINUOUS BETWEEN PLUNGS OR RUNS.

3. TOP GRIPPING SURFACES OF HANDRAILS SHALL BE 34 INCHES (864MM) MINIMUM AND 36 INCHES (914MM) MAXIMUM VERTICALLY ABOVE THE STAIR nosings and RAMP SURFACES. HANDRAILS SHALL BE A 1 1/2 INCH (38MM) MAXIMUM Consistent Height above STAIR nosings and RAMP SURFACES.

4. CLEAR SPACE BETWEEN HANDRAIL AND WALL SHALL BE 1 INCH (25MM) MINIMUM.

5. GRIPPING SURFACES SHALL BE CONTINUOUS WITHOUT INTERRUPTION BY NEW POSTS, OTHER CONSTRUCTION ELEMENTS, OR OBSTRUCTIONS. HANDRAILS, BRACKETS OR BALUSTERS ATTACHED TO THE BOTTOM SURFACE OF THE HANDRAIL SHALL NOT BE CONSIDERED OBSTRUCTIONS PROVIDED THEY COMPLY WITH THE FOLLOWING CRITERIA.

6. NOT MORE THAN 20 PERCENT OF THE HANDRAIL LENGTH IS OBSTRUCTED.

7. HORIZONTAL PROJECTIONS BEYOND THE SIDES OF THE HANDRAIL OCCUPY 2 INCHES (50MM) MINIMUM BELOW THE BOTTOM OF THE HANDRAIL AND.

8. EDGES HAVE 1 INCH (25MM) MINIMUM RADIUS.

9. HANDRAILS SHALL HAVE A CURVATURE SECTION WITH A CURVATURE DIAMETER OF 1 1/2 INCH (38MM) MINIMUM AND 2 INCH (50MM) MAXIMUM OR SHALL PROVIDE EQUIVALENT GRASPABILITY. EXCEPTION: HANDRAILS WITH OTHER SHAPES SHALL BE PERMITTED PROVIDED THEY HAVE A PERIMETER OF 4 INCH (102MM) MINIMUM AND 4 1/2 INCH (115MM) MAXIMUM AND PROVIDER THEIR LARGEST CROSS SECTION DIMENSION IS 2 1/4 INCH (58MM) MAXIMUM.

10. HANDRAILS AND ANY WALL OR OTHER SURFACES ADJACENT TO THEM SHALL BE FREE OF ANY SNAG OR ABRASIVE ELEMENTS. EDGES SHALL HAVE 1 INCH (25MM) MINIMUM RADIUS.

11. HANDRAILS SHALL NOT ROTATE WITHIN THEIR FITTINGS.

12. HANDRAILS FOR STAIRS AND RAMPS SHALL HAVE EXTENSIONS.

EXCEPTIONS:

A. EXTENSIONS ARE NOT REQUIRED FOR CONTINUOUS HANDRAILS AT THE INSIDE TURN OF STAIRS AND RAMPS.

B. IN ALTERATIONS, FULL EXTENSIONS OF HANDRAILS SHALL NOT BE REQUIRED AND WHERE SUCH EXTENSIONS WOULD BE HAZARDOUS OR IMPOSSIBLE DUE TO PLAN CONFIGURATION.

13. RAMP HANDRAILS SHALL EXTEND HORIZONTALLY 12 INCHES (305MM) MINIMUM BEYOND OF RAMP RUNS SUCH EXTENSION SHALL RETURN TO WALL, GUARD OR THE WALKING SURFACE OR SHALL BE CONTINUOUS TO THE HANDRAIL OF AN ADJACENT RAMP RUN.

14. AT THE TOP OF A STAIR FLIGHT HANDRAILS SHALL EXTEND HORIZONTALLY ABOVE THE LANDING FOR 12 INCHES (305MM) MINIMUM BEGINNING DIRECTLY ABOVE THE FIRST RISER MOSSING. SUCH EXTENSIONS SHALL RETURN TO WALL, OR THE WALKING SURFACE OR SHALL BE CONTINUOUS TO THE HANDRAIL OF AN ADJACENT STAIR FLIGHT.

15. AT THE BOTTOM OF THE STAIR FLIGHT HANDRAILS SHALL EXTEND AT THE SLOPE OF THE STAIR FLIGHT FOR A HORIZONTAL DISTANCE AT LEAST EQUAL TO 1/2 TREAD DEPTHE BEYOND THE LAST RISER MOSSING. EXTENSIONS SHALL RETURN TO A WALL, GUARD, OR THE LANDING SURFACE OR SHALL BE CONTINUOUS TO THE HANDRAIL OF AN ADJACENT STAIR FLIGHT.