



- GENERAL NOTES:
- THE DIMENSIONS AND GRADES SHOWN ON THIS STANDARD WILL BE ADHERED TO IN THE DESIGN AND THE CONSTRUCTION OF SIDEWALK RAMPS. WHERE SIDEWALKS RUN ADJACENT TO ROADWAYS ON STEEP (5.0% OR GREATER) GRADES, RAMP GRADES WILL BE AS FLAT AS POSSIBLE. (ON LOW SIDE OF DRIVES AND INTERSECTING SIDE STREETS, RAMPS SHALL SLOPE TOWARDS DRIVE OR SIDE STREET @ 2.0%).
  - MINIMUM RAMP WIDTH:
    - A. 1220 mm WHERE RAMP MAY BE APPROACHED DIRECTLY.
    - B. 1530 mm WHERE THE RAMP MUST BE (OR OFTEN WILL BE) APPROACHED FROM THE SIDE, TO PROVIDE MANEUVERING ROOM FOR WHEELCHAIRS.
  - ALLOWABLE GRADES ON RAMPS:
    - A. 8.3% MAXIMUM WHERE RAMP IS APPROACHED DIRECTLY.
    - B. 2.0% WHERE RAMP IS APPROACHED FROM THE SIDE.
    - C. FLATTER GRADES WILL BE PROVIDED WHERE FEASIBLE.
  - ALLOWABLE GRADES ON FLARES ADJACENT TO RAMPS:
    - A. 10.0% MAXIMUM WHEN DIRECTLY IN PATH THAT PEDESTRIANS MUST USE.
    - B. 8.3% MAXIMUM WHEN NORMALLY USED BY WHEELCHAIRS TO ENTER OR EXIT RAMP.
    - C. FLATTER GRADES WILL BE PROVIDED WHERE FEASIBLE.
  - CROSS SLOPES ON RAMP SURFACES SHALL NOT EXCEED 2.0%.
  - AN OVERRUN DISTANCE OF 1530 mm MINIMUM SHOULD BE PROVIDED AT THE TOP AND BOTTOM OF SIDEWALK RAMPS TO ALLOW FOR STOPPING AND MANEUVERING OF WHEELCHAIRS.
  - TRANSITIONS (GRADE CHANGES) AT TOPS AND BOTTOMS OF RAMPS AND FLARES SHOULD BE ROUNDED.
  - VERTICAL DROP-OFF EDGES TO RAMPS WILL NOT BE BUILT UNLESS THE RAMP ABUTS AN AREA WHICH WILL NOT BE USED BY PEDESTRIANS.
  - NO VERTICAL 'LIP' OR 'CURB REVEAL' WILL BE PROVIDED WHERE THE RAMP ADJOINS THE ROADWAY.
  - RAMPS SHALL IN ALL CASES DIRECT USERS INTO THE CROSSWALK AREA.
  - WHERE POSSIBLE, SIDEWALK RAMPS AND FLARES SHOULD BE LOCATED OUTSIDE THE DIRECT LINE OF TRAVEL MOST LIKELY TO BE FOLLOWED BY THE VISUALLY IMPAIRED.
  - SIDEWALK RAMPS SHOULD NOT BE LOCATED WHERE THEIR USE MAY BE PREVENTED BY SIGNS, POLES, PLANTERS, MAILBOXES, ETC.
  - WHERE POSSIBLE, SIDEWALK RAMPS SHOULD NOT BE LOCATED WHERE USERS MUST CROSS DROP INLET GRATES, MANHOLE COVERS OR OTHER ACCESS LIDS; IF THIS CANNOT BE AVOIDED THEN GRATE DESIGN AND PLACEMENT SHALL CONFORM TO ADA REQUIREMENTS.
  - CURB DRAINAGE SHOULD BE CONSTRUCTED SO AS TO PRECLUDE THE FLOW OF WATER PAST THE SIDEWALK RAMP.
  - WHERE CURB CORNER RADIUS EXCEEDS 7.5 m, TWO SIDEWALK RAMPS ARE RECOMMENDED IN PREFERENCE TO A SINGLE RAMP.
  - JOINTS WILL BE CONSTRUCTED IN ACCORDANCE WITH CURRENT SIDEWALK SPECIFICATIONS, HOWEVER EXPANSION JOINTS WITHIN THE SIDEWALK RAMP AREA WILL BE AVOIDED WHEREVER POSSIBLE.
  - SLOPES OF ADJOINING GUTTERS AND ROAD SURFACES IMMEDIATELY ADJACENT TO THE CURB RAMP SHALL NOT EXCEED 5.0%. NO LIP IS ALLOWED WHERE SIDEWALK RAMP MEETS THE GUTTER.
  - THIS DIMENSION SHALL BE ATTAINED WHERE POSSIBLE TO AVOID THE ROLLER COASTER EFFECT.
  - SIDEWALKS THAT ARE LESS THAN 1530 mm WIDE MAY REQUIRE PASSING AREAS. SEE THE VAOT ROAD DESIGN MANUAL.
- NOTE: ALL DIMENSIONS ARE IN MILLIMETERS (mm) EXCEPT WHERE NOTED.

REVISIONS AND CORRECTIONS

JUNE 13, 1997 - ORIGINAL APPROVAL DATE

APPROVED

*[Signature]*  
DIRECTOR OF ENGINEERING

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DESIGN ENGINEER

# SIDEWALK RAMPS

