

## CURB RAMP GENERAL NOTES

1. CURB RAMPS SHALL BE INSTALLED AT SIDEWALK/STREET TRANSITIONS, IN ACCORDANCE WITH THE AMERICAN'S WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAAG), LATEST REVISION, AND CRS43-2-107(2). CURB RAMPS SHALL ALSO BE PROVIDED AT MID-BLOCK LOCATIONS IN THE VICINITIES OF COMMERCIAL AREAS, HOSPITALS AND MEDICAL CENTERS, ATHLETIC STADIUMS AND AT T-INTERSECTIONS.
2. ALL RAMPS MUST BE LOCATED INSIDE CROSSWALKS OR IN FRONT OF STOP BARS.
3. DIRECTIONAL RAMPS ARE THE PREFERRED STANDARD FOR NEW CONSTRUCTION ON ALL ARTERIAL AND COLLECTOR ROADWAY APPLICATIONS. BI-DIRECTIONAL RAMPS WILL BE ALLOWED IN RESIDENTIAL APPLICATIONS AND IN RETROFIT SITUATIONS WHERE REQUIRED.
4. STANDARD RAMP DETAILS SHALL APPLY TO ALL NEW CONSTRUCTION OR REHABILITATION OF EXISTING ROADWAYS, CURBS OR SIDEWALKS. THESE DETAILS MAY BE MODIFIED IN RETROFIT APPLICATIONS TO FIT ACTUAL FIELD CONDITIONS WITH COUNTY ENGINEER'S APPROVAL. CONSTRAINTS SUCH AS LIMITED RIGHT-OF-WAY, SIGNIFICANT GRADE DIFFERENCES, DRAINAGE ISSUES, ETC., MAY NEED TO BE TAKEN INTO CONSIDERATION AT SPECIFIC LOCATIONS WHEN LOCATING AND CONFIGURING THE RAMP DIMENSIONS. ALL MODIFICATIONS TO STANDARD RAMP DETAILS SHALL BE AS DIRECTED AND APPROVED BY THE COUNTY ENGINEER.
5. MINIMUM WIDTH OF RAMPS SHALL BE 4 FEET.
6. RAMP SLOPES SHALL NOT BE STEEPER THAN 12:1 (8.33%), NOR BE LESS THAN 1/4" PER FOOT (2%), EXCEPT AS ALLOWED FOR ALTERATIONS OF EXISTING FACILITIES IN ADAAG. A 12:1 (8.33%) RAMP SLOPE WILL BE ALLOWED IF A 3 FOOT MINIMUM WIDTH LANDING IS PROVIDED (2% MAX. CROSS SLOPE). IF A LANDING IS NOT PROVIDED, THE RAMP SLOPE SHALL NOT EXCEED 1/4" PER FOOT (2%).
7. THE MAXIMUM SLOPE OF THE GUTTER IN FRONT OF CURB RAMP SHALL BE 5/8" PER FOOT (5%). FOR A STANDARD 2' GUTTER PAN THE MAXIMUM RISE AT THE LIP OF THE GUTTER SHALL BE 1 1/4" AND SHALL BE ACHIEVED BY WARPING THE GUTTER LIP FROM 2" TO 1 1/4" WITHIN 5' FROM EITHER EDGE OF THE RAMP. THE LOWER GUTTER LIP MAY BE CONTINUED AROUND THE FULL CURB RETURN RADIUS AT THE COUNTY ENGINEER'S DISCRETION. LONGITUDINAL STREET FLOWLINE GRADES SHALL BE MAINTAINED THROUGH THE RAMP AREA. THE GRADE OF THE GUTTER LIP SHALL BE MODIFIED AS DESCRIBED ABOVE.
8. SPECIAL DESIGNS MAY BE REQUIRED WHEN CURB GRADES ARE GREATER THAN 4% OR WHERE THE ANGLE OF THE INTERSECTION IS LESS THAN 75 DEGREES OR MORE THAN 105 DEGREES.
9. CURB AND GUTTER, RAMP SECTION AND ADJACENT SIDEWALK SHALL BE POURED MONOLITHICALLY UNLESS APPROVED OTHERWISE BY THE COUNTY ENGINEER.
10. A 1/2" WIDE, FULL DEPTH EXPANSION JOINT SHALL BE REQUIRED WHERE THE CURB RAMP MEETS AN ADJACENT RIGID PAVEMENT OR STRUCTURE.
11. SIDEWALKS SHALL BE RAMPED WHERE A DRIVEWAY CURB IS EXTENDED ACROSS THE WALK.
12. AVOID PLACING DRAINAGE STRUCTURES, TRAFFIC SIGNAL EQUIPMENT, JUNCTION BOXES, OR OTHER OBSTRUCTIONS IN LINE WITH CURB RAMP ACCESS AREAS. LOCATION OF THE RAMP SHALL TAKE PRECEDENCE OVER LOCATION OF DRAINAGE STRUCTURES, EXCEPT WHERE EXISTING DRAINAGE STRUCTURES ARE BEING UTILIZED WITHIN NEW CONSTRUCTION.
13. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE ARAPAHOE COUNTY INFRASTRUCTURE DESIGN AND CONSTRUCTION STANDARDS OR AS REQUIRED BY THE PROJECT SPECIFICATIONS. CONCRETE MATERIALS FOR CURB RAMPS SHALL PROVIDE A 28-DAY COMPRESSIVE STRENGTH AT OR ABOVE 4000 P.S.I.
14. ALL PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D.), FOR STREETS AND HIGHWAYS.

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CURB RAMPS FOR  
PHYSICALLY HANDICAPPED

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