

GENERAL NOTES FOR SIDEWALKS, CURB RAMPS, AND DRIVEWAYS

GENERAL

1. ALL AREAS, ELEMENTS, AND FACILITIES FOR PEDESTRIAN ACCESS, CIRCULATION AND USE THAT ARE CONSTRUCTED, INSTALLED OR ALTERED IN THE PUBLIC RIGHT-OF-WAY AND WHICH ARE SUBJECT TO TITLE II OF THE AMERICANS WITH DISABILITIES ACT (ADA) SHALL COMPLY WITH ALL CURRENT FEDERAL REGULATIONS INCLUDING THE ADA ACCESSIBILITY GUIDELINES (ADAAG).
2. NEWLY CONSTRUCTED AND ALTERED STREETS OR PEDESTRIAN WALKWAYS MUST CONTAIN CURB RAMPS AT INTERSECTIONS. (28 CFR 35.151(d)) ALTERATIONS INCLUDE RESURFACING AND ANY WORK THAT IMPACTS THE MAJORITY OF THE STREET OR WALKWAY. THE ENTIRE INTERSECTION EFFECTED MUST BE BROUGHT INTO COMPLIANCE.
3. ALL MATERIALS SHALL CONFORM TO THE "CONSTRUCTION AND MATERIAL SPECIFICATIONS" OF THE CITY OF AKRON, DEPARTMENT OF PUBLIC SERVICE, AKRON ENGINEERING BUREAU, LATEST EDITION.
4. ALL SLOPES REFERRED TO ARE REFERENCED TO A HORIZONTAL PLANE.
5. FOR SIDEWALKS, CURB RAMPS, AND DRIVEWAYS THE "PREFERRED" DIMENSION SHALL BE THE NORMAL STANDARD TO BE MET, UNLESS EXISTING ROW WIDTH OR FEATURES MAKE COMPLIANCE INFEASIBLE. IN THIS CASE THE "MINIMUM" STANDARD MUST BE MET.

PUBLIC SIDEWALKS

1. MINIMUM WIDTH OF NEW SIDEWALKS SHALL BE FIVE FEET.
2. PREFERRED CLEAR WIDTH OF A CONTINUOUS PASSAGE SHALL BE 48 INCHES; FOR ALTERATIONS TO EXISTING ROWS, WHERE THE PREFERRED CLEAR WIDTH CANNOT BE MET, THE MINIMUM CLEAR WIDTH OF A CONTINUOUS PASSAGE SHALL BE 36 INCHES.
3. SIDEWALK CROSS SLOPE SHALL NOT EXCEED 48:1 (2%).

CURB RAMPS

1. A TYPICAL CURB RAMP IS COMPOSED OF THE FOLLOWING ELEMENTS: RAMP, LANDING, SIDES, SURFACE, AND INTERSECTION WITH THE ROADWAY.
2. RAMP. THE CURB RAMP MUST HAVE A SLOPE OF NO GREATER THAN 12:1 IN THE DIRECTION OF TRAVEL AND A CROSS SLOPE OF NO MORE THAN 48:1. THE MINIMUM WIDTH FOR A RAMP IS 48-INCHES (NOT INCLUDING SIDES).
3. THE LANDING IS THE LEVEL AREA AT THE TOP OF A RAMP AND MUST NOT HAVE A SLOPE MORE THAN 48:1 IN ANY DIRECTION. THE LANDING AREA IS USED FOR TURNING AND MUST MAINTAIN A PREFERRED LENGTH AND WIDTH OF 60"x60" FOR ALTERATIONS IN EXISTING ROWS WHERE PREFERRED CLEAR WIDTH CANNOT BE MET, THE MINIMUM LENGTH AND WIDTH SHALL BE 48"x48". IN ALL CASES, THE TYPE 2 CURB RAMP (PARALLEL) MUST HAVE A LANDING LENGTH OF 60-INCHES.
4. SIDES. THE CURB RAMP SHALL BE FLARED WHEN PEDESTRIANS ARE TO CROSS THE RAMP, OR HAVE CURBING IF THE ADJACENT AREA IS A NON-PEDESTRIAN SURFACE SUCH AS A LAWN STRIP, BRICKWORK, OR OBSTACLE. MAXIMUM FLARE SLOPES ARE 12:1 OR AS DIRECTED BY THE ENGINEER. DIAGONAL CURB RAMPS MUST HAVE WELL DEFINED EDGES THAT ARE TO BE PARALLEL TO THE DIRECTION OF PEDESTRIAN FLOW. A DIAGONAL CURB RAMP MUST ALSO HAVE A MINIMUM 24-INCH SEGMENT OF FULL HEIGHT CURB ON EACH SIDE OF THE RAMP WHICH IS WITHIN THE CROSSWALK LINES OR PEDESTRIAN RIGHT-OF-WAY.
5. FLARE TREATMENTS. VARIOUS FLARE TREATMENT ARE SHOWN IN THE DRAWINGS. IN GENERAL A 12:1 FLARE INCLUDING CONCRETE TO EXTENDED SIDEWALK LINE IS PREFERRED OVER SHORT ROLLED CURBING WHERE POSSIBLE. THIS PROVIDES A CONCRETE WALKING SURFACE THE ENTIRE SIDEWALK WIDTH IN THE DIRECTION OF TRAVEL. ROLLED CURBING ON DIAGONAL CURB RAMPS IS INTENDED TO ACCOMMODATE OBSTACLES OTHER THAN GRASS OR BRICK STRIPS.
6. SURFACE. THE CURB RAMP SURFACE MUST BE STABLE, FIRM, AND SLIP-RESISTANT. CHANGE IN LEVEL UP TO 0.25-INCH MAY BE VERTICAL WITHOUT EDGE TREATMENT. CHANGES BETWEEN 0.25 AND 0.5-INCHES MUST BE BEVELED WITH A SLOPE OF NO GREATER THAN 12:1. CHANGES IN LEVEL ABOVE 0.5-INCH MUST BE ACCOMPLISHED BY A RAMP. THE FINAL SURFACE TEXTURE SHALL BE ROUGHER THAN THE ADJACENT WALK AND SHALL BE OBTAINED BY COARSE BROOMING OR OTHER METHODS APPROVED BY THE ENGINEER TO OBTAIN STRIATIONS TRANSVERSE TO THE RAMP SLOPE. BROOM FINISH TOOLED JOINTS WITHOUT FILLING-IN THE JOINT.
7. LIP. THE INTERSECTION OF THE RAMP WITH THE ROADWAY SHALL BE PERPENDICULAR AND EDGES SHALL BE FLUSH. THE COUNTER SLOPE FROM THE END OF RAMP UP THE CROSS SLOPE OF THE ROADWAY SHALL BE NO MORE THAN 20:1 FOR THE FIRST 24-INCHES.
8. NO OBSTACLES OR PROTRUSIONS SHALL BE PLACED WITHIN THE CURB RAMP AREA. EXISTING MANHOLE COVERS, VALVE BOXES SHALL BE FLUSH MOUNTED WITH WALKING SURFACE.
9. THE THICKNESS OF ALL NEW CURB RAMPS SHALL BE 6-INCHES.
10. TRANSITIONAL SECTIONS OF SIDEWALK SHALL BE INSTALLED TO CONNECT NEW OR REPLACED CURB RAMPS WITH EXISTING SIDEWALKS, THAT DO NOT MEET CURRENT STANDARDS AND SPECIFICATIONS. THESE TRANSITION SEGMENTS OF SIDEWALK SHALL PROVIDE A SMOOTH TRANSITION BETWEEN EXISTING AND NEW CONCRETE. MAXIMUM WARPING (ROTATION) RATE SHALL BE 1/8" VERTICAL CHANGE PER L.F. HORIZONTAL DISTANCE TRAVELLED AND MINIMUM DISTANCE SHALL BE ONE FULL SIDEWALK BLOCK.
11. FOR PARALLEL AND COMBINATION RAMPS WHERE A RAMP IS LOCATED WITHIN THE PUBLIC SIDEWALK, THE MINIMUM LENGTH FOR THE RAMPS SHALL BE ONE SIDEWALK BLOCK LENGTH; AND THE MAXIMUM LENGTH SHALL BE WHAT IS REQUIRED TO MAINTAIN A 12:1 SLOPE TO MEET EXISTING SIDEWALK GRADE. WHEN THIS IS DETERMINED UNFEASIBLE DUE TO STEEP PITCH OF EXISTING ROADWAY, IN NO CASE SHALL THE RAMP BE LESS THAN 15 FEET.
12. STEEP SLOPES. ALL RAMPS LOCATED ON STREETS WITH A RUNNING PROFILE GRADE GREATER THAN 5% MUST BE REVIEWED AND APPROVED BY THE ENGINEER.

13. SLOPE AND CROSS-SLOPE CONVERSION TABLE:

RATIO	PERCENT	INCH/FOOT	DEGREES	WHERE UTILIZED
1:12	8.3	1	4.8	MAXIMUM SLOPE FOR RAMPS AND FLARES
1:20	5.0	5/8	2.9	AT THE FOOT OF THE CURB RAMP, THE TRANSITION FROM THE RAMP TO THE GUTTER COUNTER SLOPE SHALL BE NO MORE THAN 1:20 FOR A MINIMUM DISTANCE OF 24-INCHES
1:48	2.0	1/4	1.1	MAXIMUM SLOPE FOR LANDING AND CROSS-SLOPE OF LANDINGS, RAMPS AND SIDEWALK

14. FOR CURB RAMP STANDARD DRAWINGS TYPICAL DIMENSIONS ARE USED BASED ON A FULL CURB HEIGHT OF 6-INCHES. ADJUSTMENTS MAY BE MADE TO LENGTH OF RAMPS AND FLARES BASED ON ACTUAL CURB REVEAL HEIGHT. REQUIRED SLOPES MUST BE MAINTAINED.
15. WHEN TWO RAMPS ARE USED AT A CORNER IF THE SPACE BETWEEN IS TO BE AN UNWALKABLE SURFACE IT MAY BE GRASSED IF GREATER THAN 20 S.F., OTHERWISE IT SHALL BE FILLED IN WITH BRICK PAVERS.
16. TYPES 2 & 3 RAMPS. WHEN BACK CURB HEIGHT IS 4" OR GREATER INSTALL SEPARATE 6"x18" CURB AT THE BACK OF WALK. IF LESS THAN 4" UTILIZE ROLLED INTEGRAL CURB. ROLLED CURB PAID AS 6" WALK.
17. DETECTABLE WARNING IS REQUIRED FOR ALL CURB RAMPS. TRUNCATED DOMES SHALL HAVE A DIAMETER OF 0.9 INCH AT THE BOTTOM, A DIAMETER OF 0.4 INCH AT THE TOP, A HEIGHT OF 0.2 INCH AND A CENTER-TO-CENTER SPACING OF 2.35 INCHES MEASURED ALONG ONE SIDE OF A SQUARE ARRANGEMENT.
18. DOME ALIGNMENT. DOMES SHALL BE ALIGNED ON A SQUARE GRID IN THE PREDOMINANT DIRECTION OF TRAVEL TO PERMIT WHEELS TO ROLL BETWEEN DOMES.
19. DETECTABLE WARNING SHALL BE A PREFORMED MATERIAL AS APPROVED BY THE CITY OF AKRON. THE USE OF CONCRETE STAMPING IS NOT PERMITTED. APPROVED DETECTABLE WARNING PRODUCTS ARE:
 1. ARMORTILE (CAST-IN-PLACE SYSTEM) - BY ENGINEERED PLASTICS, INC., 300 INTERNATIONAL DRIVE, SUITE 100, WILLIAMSVILLE, NY 14221.
 2. COMPOSITE TACTILE WARNING PAVER UNIT (CAST-IN-PLACE) - BY ADA SOLUTIONS, INC. ONE SURVEY CIRCLE - 2nd FLOOR, NORTH BILLERICA, MA 01862.

OR: APPROVED EQUAL.
20. DRAINAGE. ALL CURB RAMPS SHALL BE DESIGNED AND CONSTRUCTED TO PROVIDE POSITIVE DRAINAGE SO AS TO PREVENT PONDING. PARTICULAR ATTENTION IS TO BE GIVEN TO RAMPS LOCATED IN EITHER FLAT OR STEEP AREAS, AND CURB RAMP TYPES 2 & 4 THAT HAVE LANDINGS AT STREET LEVEL.

DRIVEWAYS

1. DRIVEWAY LOCATIONS ARE GOVERNED BY CITY OF AKRON ORDINANCES.
2. THE SIDEWALK WIDTH AT TOP OF DRIVE SHALL BE PREFERRED WIDTH OF 48-INCHES; FOR ALTERATIONS TO EXISTING ROWS WHERE THE PREFERRED WIDTH CANNOT BE MET, THE MINIMUM WIDTH SHALL BE 36-INCHES.
3. LIP AT BOTTOM OF APRON SHALL BE 1-INCH TYPICAL.

DO NOT SCALE - USE DIMENSIONS ONLY

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