

- NOTES:
1. CONSTRUCT THE WALKING SURFACE WITH SLIP RESISTANCE, AND A 70% CONTRASTING COLOR TO THE SIDEWALK. UNLESS SPECIFIED, COLOR OF TILE SHALL BE STANDARD BRICK RED (FEDERAL COLOR NO. 22144).
 2. CROSSWALK WIDTHS AND CONFIGURATION VARY, BUT MUST CONFORM TO TRAFFIC DESIGN STANDARDS.
 3. NORTH CAROLINA GENERAL STATUTE 136-44.14 REQUIRES THAT ALL STREET CURBS BEING CONSTRUCTED OR RECONSTRUCTED FOR MAINTENANCE PROCEDURES, TRAFFIC OPERATIONS, REPAIRS, CORRECTION OF UTILITIES OR ALTERED FOR ANY REASON AFTER SEPTEMBER 1, 1973 SHALL PROVIDE CURB RAMPS FOR THE PHYSICALLY DISABLED AT ALL INTERSECTIONS WHERE BOTH CURB AND GUTTER AND SIDEWALKS ARE PROVIDED AND AT OTHER POINTS OF PEDESTRIAN FLOW.

IN ADDITION, SECTION 228 OF THE 1973 FEDERAL AID HIGHWAY SAFETY ACT REQUIRES PROVISION OF CURB RAMPS ON ANY CURB CONSTRUCTION AFTER JULY 1, 1976 WHETHER A SIDEWALK IS PROPOSED INITIALLY OR IS PLANNED FOR A FUTURE DATE.

THE AMERICANS WITH DISABILITIES ACT (ADA) OF 1990 EXTENDS TO INDIVIDUALS WITH DISABILITIES, COMPREHENSIVE CIVIL RIGHTS PROTECTIONS SIMILAR TO THOSE PROVIDED TO PERSONS ON THE BASIS OF RACE, SEX, NATIONAL ORIGIN, AND RELIGION UNDER THE CIVIL RIGHTS ACT OF 1964. THESE CURB RAMPS HAVE BEEN DESIGNATED TO COMPLY WITH THE CURRENT ADA STANDARDS.

4. PROVIDE CURB RAMPS AT LOCATIONS AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. LOCATE CURB RAMPS AS DIRECTED BY THE ENGINEER WHERE EXISTING LIGHT POLES, FIRE HYDRANTS, DROP INLETS, ETC. AFFECT PLACEMENT. WHERE TWO RAMPS ARE INSTALLED, PLACE NOT LESS THAN 2 FEET OF FULL HEIGHT CURB BETWEEN THE RAMPS. PLACE DUAL RAMPS AS NEAR PERPENDICULAR TO THE TRAVEL LANE BEING CROSSED AS POSSIBLE.
5. CONCRETE CURB RAMPS WILL BE MEASURED AND PAID FOR IN UNITS OF "EACH."
6. PAY ITEMS FOR ALL DEPRESSED CURBS AT CURB RAMPS SHALL BE PER NCDOT STANDARD DRAWINGS 848.05 AND 848.06.

7. SUCH PRICES AND PAYMENTS ARE CONSIDERED FULL COMPENSATION FOR ALL MATERIALS, LABOR, EQUIPMENT, TOOLS, AND INCIDENTALS NECESSARY TO SATISFACTORILY COMPLETE THE WORK.
8. DO NOT EXCEED 0.08% (12:1) SLOPE ON THE CURB RAMP IN RELATIONSHIP TO THE GRADE OF THE STREET.
9. CONSTRUCT CURB RAMPS A MINIMUM OF 48" (4') WIDE.

10. USE CLASS "A" CONCRETE WITH A SIDEWALK FINISH IN ORDER TO OBTAIN A ROUGH NON-SKID TYPE SURFACE. CONCRETE SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 825 AND SECTION 848 OF THE CURRENT EDITION OF THE NCDOT STANDARD SPECIFICATIONS FOR ROADS & STRUCTURES.
11. PLACE A 1/2" EXPANSION JOINT WHERE THE CONCRETE CURB RAMP JOINS THE CURB AS SHOWN IN NCDOT STD. DWG. 848.01.

12. PLACE THE INSIDE PEDESTRIAN CROSSWALK LINES NO CLOSER IN THE INTERSECTION BY BISECTING THE INTERSECTION RADII, WITH ALLOWANCE OF A 4 x 4' CLEAR ZONE IN THE VEHICULAR TRAVELWAY, WHEN ONE RAMP IS INSTALLED. (SEE NOTE 17)
13. COORDINATE THE CURB CUT AND THE PEDESTRIAN CROSSWALK LINES SO THE FLOOR OF THE CURB RAMP WILL FALL WITHIN THE PEDESTRIAN CROSSWALK LINES. PLACE DIAGONAL RAMPS WITH FLARED SIDES SO 24" OF FULL HEIGHT CURB FALLS WITHIN THE CROSSWALK MARKINGS ON EACH SIDE OF THE FLARES.

14. CONSTRUCT THE PEDESTRIAN CROSSWALK A MINIMUM OF 8 FEET. A CROSSWALK WIDTH OF 10 FEET OR GREATER IS DESIRABLE.
15. USE STOP LINES, NORMALLY PERPENDICULAR TO THE LANE LINES, WHERE IT IS IMPORTANT TO INDICATE THE POINT BEHIND WHICH VEHICLES ARE REQUIRED TO STOP IN COMPLIANCE WITH A TRAFFIC SIGNAL, STOP SIGN, OR OTHER LEGAL REQUIREMENT. AN UNUSUAL APPROACH SKEW MAY REQUIRE THE PLACEMENT OF THE STOP LINE TO BE PARALLEL TO THE INTERSECTING ROADWAY.

16. TERMINATE PARKING A MINIMUM OF 20 FEET BACK OF PEDESTRIAN CROSSWALK.

17. PLACE ALL PAVEMENT MARKINGS IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), PUBLISHED BY THE FEDERAL HIGHWAY ADMINISTRATION, AND THE NORTH CAROLINA SUPPLEMENT TO THE MUTCD.

18. **PRIOR TO THE POURING OF THE CONCRETE, THE FOUNDATION, FORMWORK, ETC. MUST BE APPROVED BY THE ENGINEERING SERVICES DEPT. AND/OR THE PUBLIC SERVICES DEPT.**

19. RETROFITTING:
 - A. CURB RAMP AND EXISTING SIDEWALK WITH GRASS STRIP - SEE NCDOT STD. NO. 848.06 (SHEET 1 OF 5). USE VPC TILE PER SHEET 1.
 - B. CURB RAMPS AND EXISTING SIDEWALK ADJACENT TO CURB - SEE NCDOT STD. NO. 848.06 (SHEET 2 OF 5). USE VPC TILE PER SHEET 1.
 - C. RETROFITTING DETECTABLE WARNING DOMES ONTO EXISTING CURB RAMP - SEE NCDOT STD. NO. 848.06 (SHEET 3 OF 5). USE VPC TILE PER SHEET 1.

STANDARD DRAWING FOR
CURB RAMP
 WITH DETECTABLE WARNING SURFACE

WCR_4.DWG

511.01

SHEET 2 OF 3

ISSUED 4-12-07	
REVISIONS	
5-14-07	
7-16-13	
2-6-14	
9-12-16	

CITY OF HIGH POINT
 NORTH CAROLINA
 ENGINEERING SERVICES DEPARTMENT

APPROVED: APRIL 12, 2007

BXP
 DIRECTOR