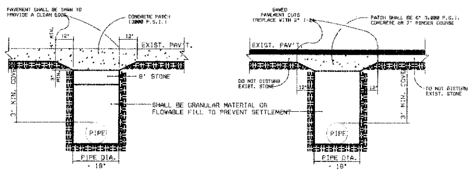


CONCRETE PAVEMENT

ASPHALT PAVEMENT

NOTE TO CONTRACTOR:

ALL PAVEMENT CUTS SHALL BE REPAIRED WITHIN A MAXIMUM OF THREE (3) DAYS FROM THE DATE THE CUT IS MADE. IF CONDITIONS DO NOT PERMIT A PERMANENT REPAIR WITHIN THE GIVEN TIME LIMIT, PERMISSION TO MAKE A TEMPORARY REPAIR MUST BE OBTAINED FROM THE TOWN ENGINEER.

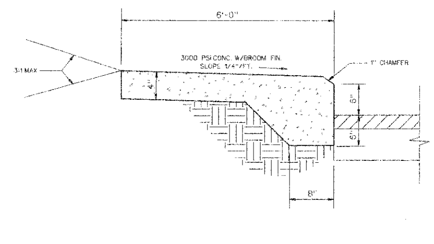
CONCRETE TRENCH CAP ON ASPHALT STREETS SHALL BE USED ONLY DURING INCLEMENT WEATHER WHEN ASPHALT PLANTS ARE NOT OPERATING.

REVISIONS		
DATE	DESCRIPTION	
11/88	CHANGED MAX. DAYS	S.S.S.
12/86	CHANGED NOTE INSP.	D.D.G.
10/88	NOTE ADDITION	M.H.D.

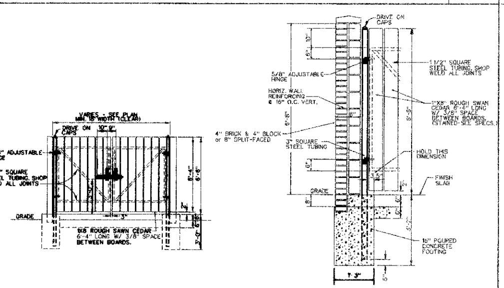
STANDARD TRENCH AND PAVEMENT REPAIR SECTIONS

STD. NO. 5.01

PRECAST CONCRETE CATCH BASIN



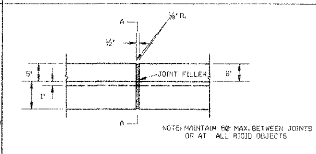
SIDEWALK AT PARKING LOT



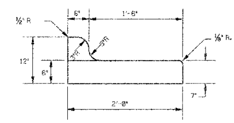
FRONT ELEVATION

SECTION thru WALL

TRASH ENCLOSURE DETAIL (MASONRY WALL)

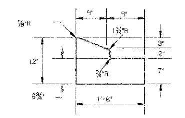


FRONT ELEVATION
TRANSVERSE EXPANSION JOINT



SECTION A-A
SIDE ELEVATION

COMBINATION CURB AND GUTTER

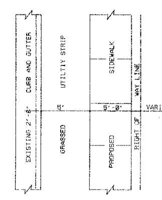


NOTES:
1. CONCRETE SHALL BE 3,000 P.S.I.
2. CONTRACTION JOINTS SHALL BE SPACED AT 10' INTERVALS.(A 15' SPACING WILL BE ALLOWED WHEN A MACHINE IS USED.)
3. FINISH ALL CONCRETE WITH CURING COMPOUND

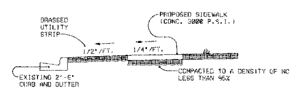
MEDIAN CURB AND GUTTER
SIDE ELEVATION

STANDARD CONCRETE CURB AND GUTTER

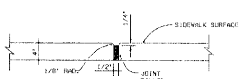
NOTES:
1.) TRANSVERSE EXPANSION JOINTS TO BE A MAXIMUM OF 50 FEET.
2.) ALL CONCRETE TO BE FINISHED WITH CURING COMPOUND.
3.) A 6' DEPTH IS REQUIRED AT LOCATIONS OF DRIVEWAY CROSSINGS AND STREET INTERSECTIONS.



PLAN VIEW



TYPICAL SECTION

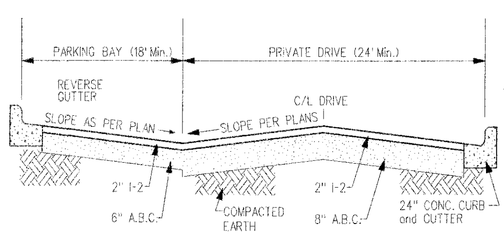


TRANSVERSE EXPANSION JOINT

REVISIONS	
DATE	DESCRIPTION

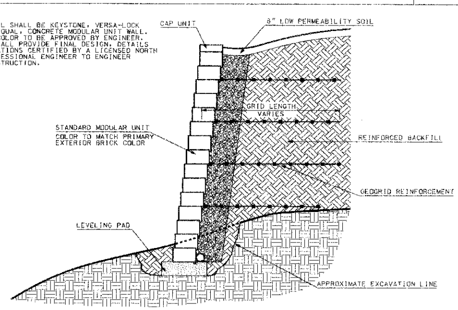
STANDARD CONCRETE SIDEWALK

STD. NO. 3.07



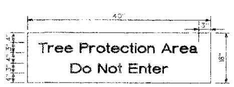
TYPICAL CROSS-SECTION THROUGH PRIVATE DRIVEWAY AND PARKING BAYS

NOTE:
RETAINING WALL SHALL BE KEYSTONE, VERSA-LOCK OR APPROVED EQUAL, CONCRETE MODULAR UNIT WALL. TEXTURE AND COLOR TO BE APPROVED BY ENGINEER. CONTRACTOR SHALL PROVIDE FINAL DESIGN. DETAILS AND SPECIFICATIONS CERTIFIED BY A LICENSED NORTH CAROLINA PROFESSIONAL ENGINEER TO ENGINEER PRIOR TO CONSTRUCTION.

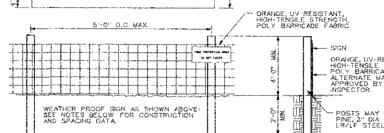


MODULAR RETAINING WALL

NOT TO SCALE



INSTALL TREE PROTECTION FENCE AND SIGNAGE PRIOR TO CALLING FOR THE INITAL ON-SITE INSPECTION BY THE TOWN OF CARY INSPECTOR.



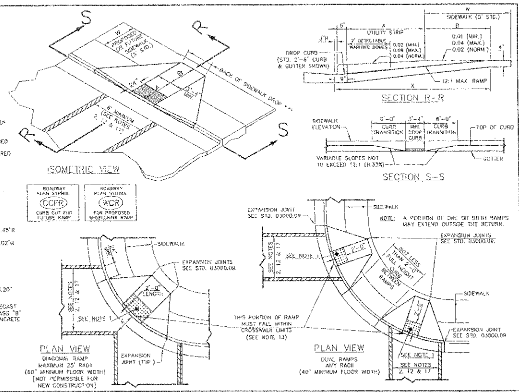
NOTE:
1. WARNING SIGNS TO BE MADE OF DURABLE, WEATHERPROOF MATERIAL.
2. LETTERS ARE TO BE 3" HIGH MINIMUM, CLEARLY LEGIBLE AND SPACED AS DETAILED.
3. SIGNS ARE TO BE PLACED NO GREATER THAN 200' ON CENTER.
4. PLACE SIGN AT EACH END OF LINEAR TREE PROTECTION AREAS AND 200' ON CENTER THEREAFTER.
5. FOR TREE PROTECTION AREAS LESS THAN 200' IN PERIMETER, PROVIDE NO LESS THAN ONE SIGN PER PROTECTION AREA.
6. ATTACH SIGNS SECURELY TO FENCE POSTS AND FABRIC.
7. MAINTAIN TREE PROTECTION FENCE THROUGHOUT DURATION OF PROJECT.
8. ADDITIONAL SIGNS MAY BE REQUIRED BY TOWN OF CARY INSPECTIONS DEPARTMENT BASED ON ACTUAL FIELD CONDITIONS.

TREE PROTECTION FENCE

NOT TO SCALE

W	A	W+A+9"	X	B
5'	3.0'	3.8'	5.8'	5.0'*
6'	3.0'	6.8'	6.8'	6.0'**
7'	3.0'	7.8'	7.3'	6.5'**
8'	3.0'	8.8'	7.3'	6.5'**
5'	2.0'	7.8'	7.8'	5.8'
5'	2.5'	8.3'	8.1'	4.8'
5'	3.0'	8.8'	8.3'	4.4'
5'	3.5'	9.3'	8.4'	4.1'
5'	4.0'	9.8'	8.6'	3.8'
5'	4.5'	10.3'	8.7'	3.4'
5'	5.0'	10.8'	8.9'	3.1'

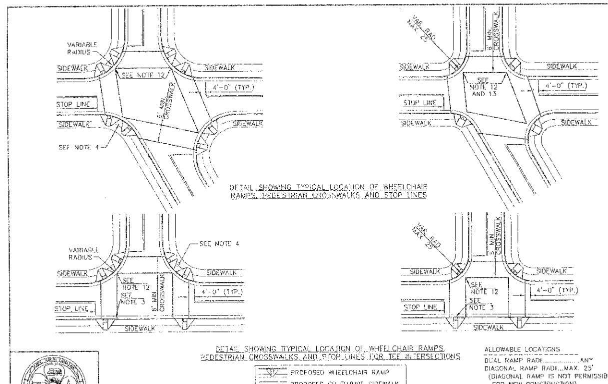
B = X-(A+9")
B = DISTANCE FROM FRONT EDGE OF SIDEWALK TO BACK POINT OF 12:1 (8.33%) SLOPE.
* BACK OF SIDEWALK DROP REQUIRED FOR ALL SIDEWALK SLOPES.
** BACK OF SIDEWALK DROP REQUIRED FOR SIDEWALK SLOPE 0.04.



STANDARD WHEELCHAIR RAMP

DETAIL No. 03000.14
SHEET 1 OF 3

EFFECTIVE: 07/01/04



ALLOWABLE LOCATIONS
DUAL RAMP RADII.............ANY
DIAGONAL RAMP RADII...MAX. 25'
(DIAGONAL RAMP IS NOT PERMISSIBLE FOR NEW CONSTRUCTION)

STANDARD WHEELCHAIR RAMP

DETAIL No. 03000.14
SHEET 2 OF 3

EFFECTIVE: 07/01/04

NOTES:

1. DETECTABLE WARNING DOMES SHALL COVER 2'-0" IN LENGTH AND FULL WIDTH OF THE RAMP FLOOR AS SHOWN ON DETAIL 03000.14, SHEETS 1 & 2. THE RAMP MAY BE YELLOW IN COLOR OR ANY COLOR WITH A 70% CONTRAST RATIO.
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 WHEELCHAIR 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 DESIGNED TO COMPLY WITH THE CURRENT ADA STANDARDS.
4. PROVIDE WHEELCHAIR RAMPS AT LOCATIONS AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. LOCATE WHEELCHAIR 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. PAY FOR ALL VARIABLE DEPTH CONCRETE USED FOR CONSTRUCTION OF WHEELCHAIR RAMPS AS CONCRETE WHEELCHAIR RAMPS. (SQ. YDS.)
6. PAY FOR ALL DEPRESSED CURBS AT WHEELCHAIR RAMPS AS THE TYPE CURB AND GUTTER USED ADJACENT TO DEPRESSED CURB. (LN. FT.)
7. SUCH PRICES AND PAYMENTS IS 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 WHEELCHAIR RAMP IN RELATIONSHIP TO THE GRADE OF THE STREET.
9. CONSTRUCT WHEELCHAIR RAMPS 40" (3'-4") OR GREATER FOR DUAL RAMPS AND 60" (5'-0") OR GREATER FOR DIAGONAL RAMPS.
10. USE CLASS "B" CONCRETE WITH A SIDEWALK FINISH IN ORDER TO OBTAIN A ROUGH NON-SKID TYPE SURFACE.
11. PLACE A ½" EXPANSION JOINT WHERE THE CONCRETE WHEELCHAIR RAMP JOINS THE CURB AND AS SHOWN ON STANDARD DETAIL 03000.09.
12. PLACE THE INSIDE PEDESTRIAN CROSSWALK LINES NO CLOSER IN THE INTERSECTION BY BISECTING THE INTERSECTION RADII, WITH ALLOWANCE OF A 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 WHEELCHAIR 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 6 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.

STANDARD WHEELCHAIR RAMP

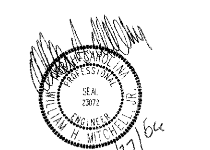
DETAIL No. 03000.14
SHEET 3 OF 3

EFFECTIVE: 07/01/04

NOTE: ALL CONSTRUCTION MUST BE PERFORMED IN ACCORDANCE WITH CURRENT TOWN OF CARY STANDARD SPECIFICATIONS AND DETAILS

03-SP-101-A
APPROVED
TOWN OF CARY

APPROVED BY ___ DATE 6-22-06
PLANNING ___ DATE 8-31-06
ENGINEERING TS DATE 8-31-06



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TELEPHONE: (919)851-4422 or (800)345-1879
FAX: (919)851-8968 (RALEIGH), (919)570-1362 (WAKE FOREST)

NO.	DATE	DESCRIPTION	BY
2	8/29/03	Town of Cary REVIEW COMMENTS	

REVISIONS

JOB NO. 03119001 | DATE 6-2-03 | DRAWN BY

DETAILS

SCALE: AS NOTED

CARY CHURCH OF GOD
CARY, NORTH CAROLINA

SHEET C4.1 OF

W:±3JOBS•19001\31194_1.DGN

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