

TRAFFIC GROWTH					
FACILITY DESCRIPTION	ESTIMATED YEARLY INCREASE	GROWTH FACTOR, G			
		20 YRS.	15 YRS.	10 YRS.	5 YRS.
DEAD END STREET	1%	1.22	1.16	1.10	1.05
CONNECTOR STREET	2%	1.49	1.35	1.22	1.11
SUBDIVISION STREET					
(a) FULLY DEVELOPED	0.5%	1.11	1.08	1.05	1.03
(b) 50% DEVELOPED	4%	2.19	1.80	1.48	1.22
PRINCIPAL COUNTY ROAD	3%	1.81	1.56	1.34	1.16
OTHER COUNTY ROADS	2%	1.49	1.35	1.22	1.11
INDUSTRIAL SERVICE ROAD					
(a) UNDEVELOPED	6%	3.21	2.40	1.79	1.34
(b) 50% DEVELOPED	4%	2.19	1.80	1.48	1.22

THE ABOVE ARE TYPICAL VALUES. THE ACTUAL TRAFFIC GROWTH RATE FOR A PARTICULAR FACILITY MAY VARY SUBSTANTIALLY FROM THOSE ABOVE. IF THE DESIGNER HAS BETTER INFORMATION AVAILABLE, HE MAY CALCULATE AN APPROPRIATE GROWTH FACTOR USING THE FOLLOWING EQUATION ①

$$① G = (1 + i)^n$$

where i = FRACTIONAL RATE OF YEARLY INCREASE  
 n = DESIGN LIFE OF PAVEMENT

$$② \overline{ADT} = \frac{ADT + (G \times ADT)}{2}$$



PUBLIC WORKS DEPARTMENT  
 1500 Beatty Street  
 Greenville, North Carolina 27834

**CITY OF GREENVILLE, N.C.**  
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No.	Date	Description
1	9/16/11	APPROVAL
Scale: not to scale		
Sheet #: 1 of 1		Detail # 491.03

**RESIDENTIAL STREET SECTION DESIGN**