




STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

MICHAEL F. EASLEY
GOVERNOR

LYNDO TIPPETT
SECRETARY

June 18, 2004

MEMORANDUM TO: William T. Goodwin, PE
Unit Head
Bridge Replacement Planning Unit
Project Development and Environmental Analysis Branch

FROM: Wayne C. Davis, Ph.D. 
Traffic Forecast Unit
Transportation Planning Branch

SUBJECT: B-4676, Replacement of Bridge No. 29 over Cub Creek on
SR 1001, Wilkes County

Please find attached the Traffic Forecast Report for TIP Bridge Replacement Project No. B-4676. Bridge No. 29 is located on SR 1001 over Cub Creek in Wilkesboro, Wilkes County. SR 1001 is a two-lane road and Bridge No. 29 is a two-lane concrete deck structure with asphalt overlay and metal guardrails. The area surrounding the bridge is urban and consists of commercial, recreational, and medium density residential land uses.

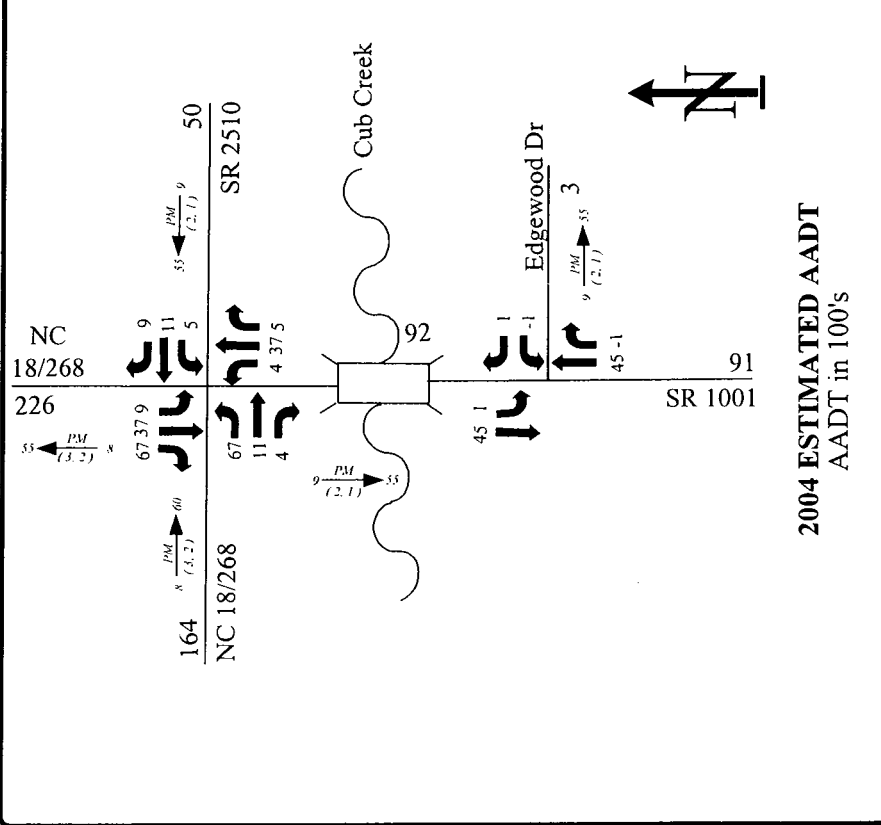
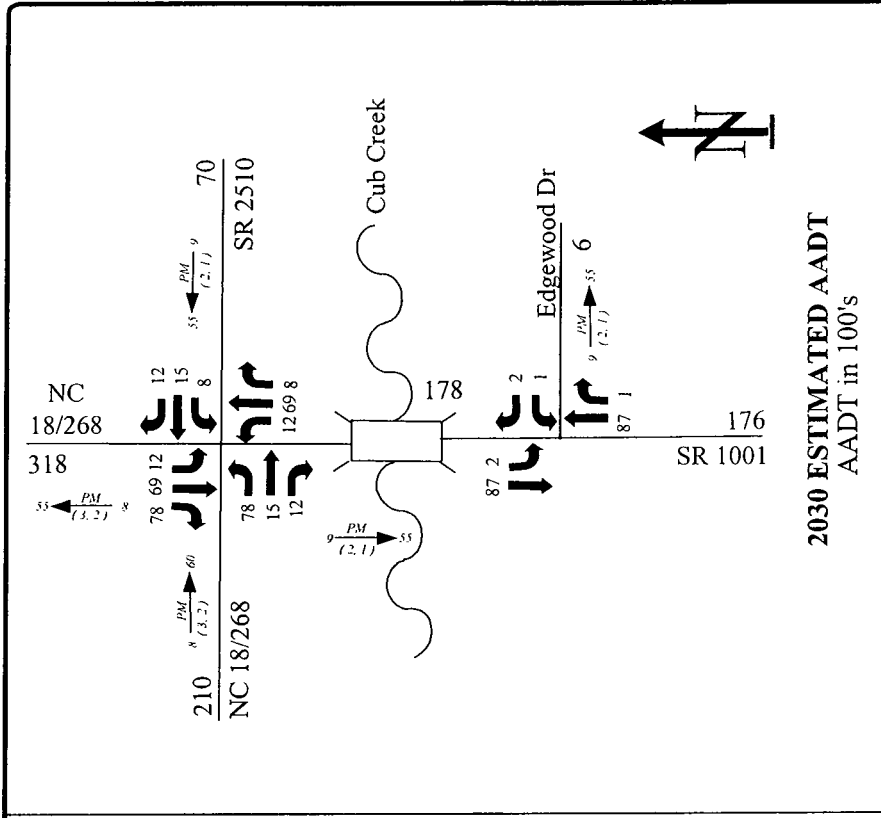
Information from the Census' 2001 County Business Patterns (<http://www.census.gov>) states that the major trade in Wilkes County is manufacturing. In the 2000 census, the largest age bracket is ages 35-44 and the percentage of people older than eighteen (18) is 77.4%. Future growth experienced in the county may be attributed to economic development as well as an increase in population.

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LOCATION:
TRANSPORTATION BUILDING
1 SOUTH WILMINGTON STREET
RALEIGH NC



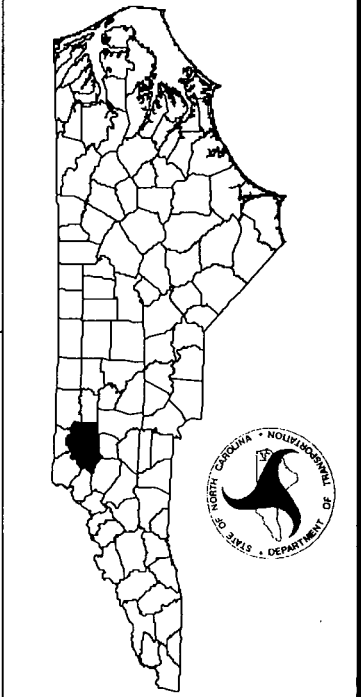
LOCATION:
Bridge No. 29 over Cub
Creek on SR 1001

PROJECT:
Bridge Replacement

COUNTY: Wilkes

DIV.: 11 **DATE:** April 2004

TIP # B-4676 **WBS #** 33831.1.1



LEGEND

VPD---# OF VEHICLES PER DAY
 ###- MUCH LESS THAN ### VPD
 X MOVEMENT PROHIBITED

DHV \xrightarrow{PM} D
 (d,v)

DHV DESIGN HOURLY VOLUME (%) = K30
 K30 = 30TH HIGHEST HOURLY VOLUME

D DIRECTIONAL SPLIT (%)

PM PM PEAK PERIOD

(d+v) DUALS, TT-ST'S (%)

NOTE: DHV \xrightarrow{D} INDICATES THE DIRECTION D.
 REVERSE FLOW FOR AM PEAK.

