



STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION

ROY COOPER  
GOVERNOR

JAMES H. TROGDON, III  
SECRETARY

September 25, 2018

MEMORANDUM TO:           Tierre Peterson, PE  
   Structures Management Unit

FROM:                         Chris McKoy  
   Traffic Forecasting Group  
   Transportation Planning Division

SUBJECT:                     Traffic Forecast for B-5770  
   Forsyth County  
   Replace bridge number 243, Salisbury Ridge Road over NC 150

Please find attached the 2018 and 2040 traffic forecast for B-5770. This forecast was requested on July 17, 2018 and replaces the forecast that was completed in May of 2013.

The project is located within the City of Winston-Salem and the Winston-Salem Urban Area MPO. The 2018-2027 NCDOT STIP shows project B-5770 scheduled for construction in 2020.

The following persons were consulted during the forecast development:

- Michael Doub, Streets and Traffic Operations Supervisor, City of Winston-Salem
- Rodd Ring, Transportation Operations Manager, City of Winston-Salem
- Byron Brown, Transportation Planner, City of Winston-Salem/WSMPO
- Soon Chung, Model Research & Development Group, NCDOT-TPD
- Kirk Erickson, Principal Planner, City of Winston-Salem

The following scenarios are provided for this forecast:

- 2018 Estimate
- 2040 Forecast

The bridge replacement is not expected to substantially affect travel demand along roads within the project area, therefore, both the 2018 and 2040 scenarios represent project no-build and build conditions.

**Certain Assumptions were made during the development of this forecast.**

**Fiscal Constraint:**

For projects located within an MPO area, forecasts are fiscally constrained to the MPO's Metropolitan Transportation Plan (MTP). This means that only projects scheduled in the 2040 MTP are considered constructed and open to traffic in the future year. There are no other MTP projects that will directly affect the B-5770 project.

*Mailing Address:*  
NC DEPARTMENT OF TRANSPORTATION  
TRANSPORTATION PLANNING DIVISION  
1554 MAIL SERVICE CENTER  
RALEIGH, NC 27699-1544

*Telephone:* (919) 707-0900  
*Fax:* (919) 733-9794  
*Customer Service:* 1-877-368-4968

*Website:* [www.ncdot.gov](http://www.ncdot.gov)

*Location:*  
1 SOUTH WILMINGTON STREET  
RALEIGH, NC 27601

**Development Activity:**

No transportation projects or developments are under construction within the project vicinity.

**Forecast Methodology:**

2018 AADT estimates and traffic factors are based upon previously collected data and historic AADT trends projected to 2018.

The 2040 forecast was developed based upon travel demand predictions from the Piedmont-Triad Regional Model.

**Interpolation:**

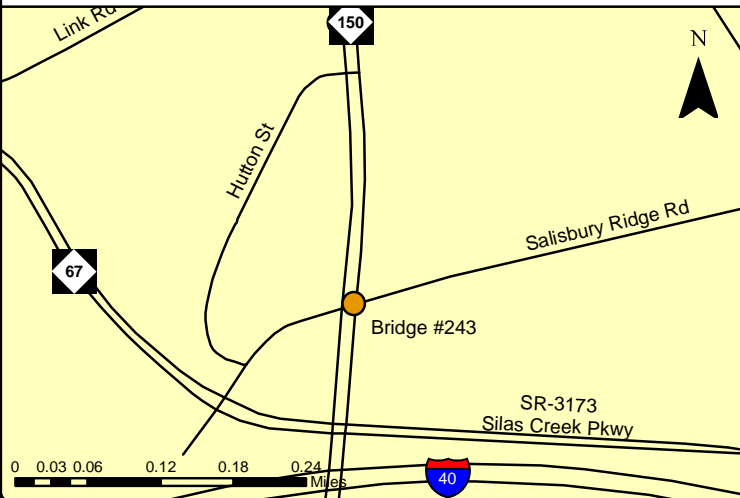
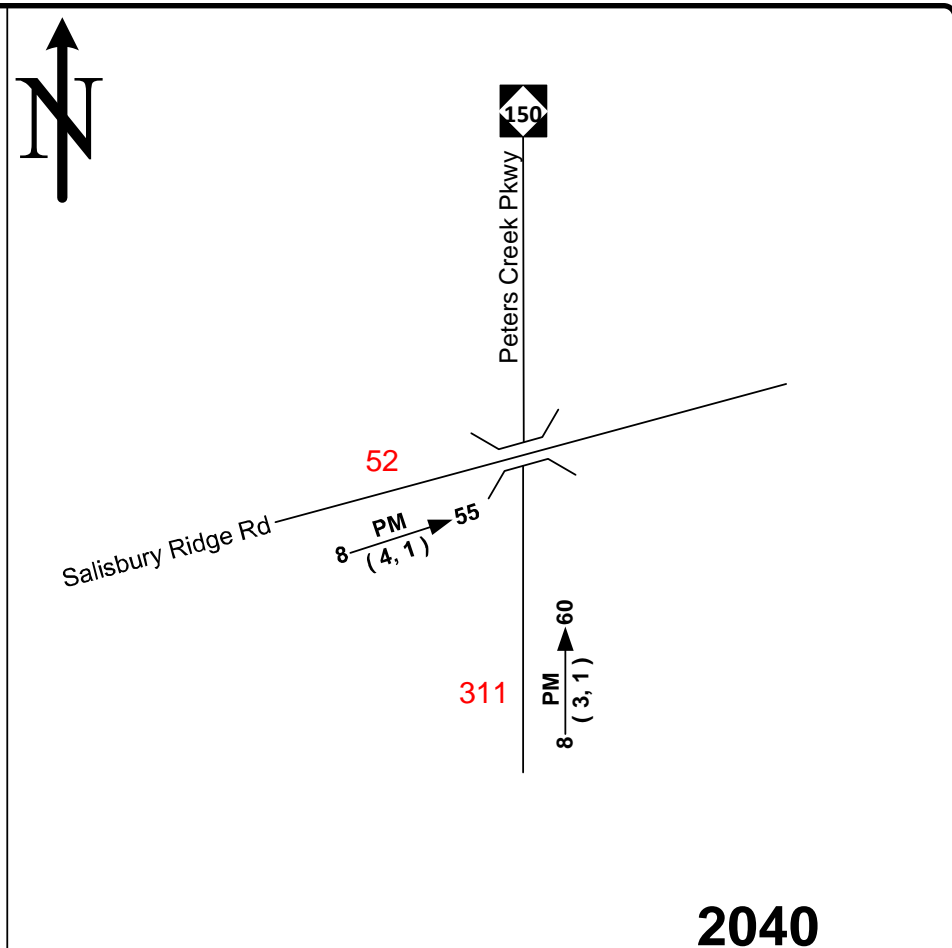
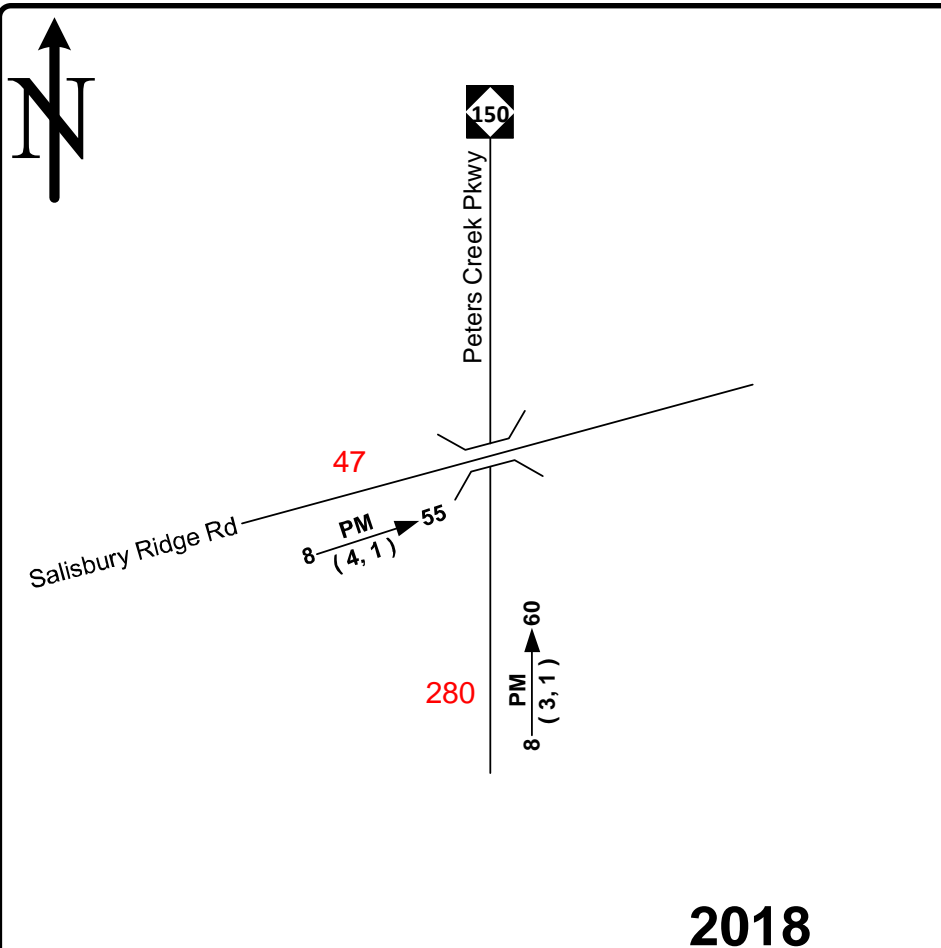
To determine any intermediate years, straight line interpolation may be used for years between 2018 and 2040. AADT volumes may be extrapolated for up to two years immediately following 2040.

If it is determined that any of these assumptions have become inconsistent with the project and surrounding area activity, please request an updated forecast at this location.

If you have any questions, or if I can be of further assistance, please do not hesitate to contact me at 919-707-0939, or email [cdmckoy@ncdot.gov](mailto:cdmckoy@ncdot.gov)

**CC (with Attachments):**

Brenda Moore, PE, Roadway Design Branch  
John A. Bailey, Transportation Planning Division  
Keith Dixon, Transportation Planning Division  
Mike Reese, PE, Congestion Management  
Clark Morrison, PhD, PE, Pavement Management  
Fred Haith, Division Planning Engineer  
Traffic Forecasting GIS Support



# 2018/2040

AVERAGE ANNUAL DAILY TRAFFIC

SHEET 1 OF 1

**LEGEND**

- ### No. of Vehicles Per Day in 100s
- 1- Less than 50 vpd
- X Movement Prohibited
- $K \frac{PM}{(d, t)} \rightarrow D$
- K Design Hour Factor (%)
- PM PM Peak Period
- D Peak Hour Directional Split (%)
- Indicates Direction of D
- (d, t) Duals, TT-STs (%)

<b>TIP:</b> B-5770		<b>WBS:</b> 45726.1.1	
<b>COUNTY:</b> Forsyth		<b>DIVISION:</b> 9	
<b>DATE:</b> 09-25-2018			
<b>PREPARED BY:</b> Chris McKoy			
<b>LOCATION:</b> Salisbury Ridge Rd			
<b>PROJECT:</b> Replace Bridge No. 243 on Salisbury Ridge Rd over NC 150			