



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

ROY COOPER
GOVERNOR

J. ERIC BOYETTE
SECRETARY

October 13, 2021

MEMORANDUM TO: Shane York
Planning & Programming / Feasibility Studies Unit

FROM: Joe Schirripa
Traffic Forecasting Group

SUBJECT: Traffic Forecast for A171560
Carteret County
Relocation of NC 101 to accommodate extension of Michael J.
Smith Airport runways

Please find attached the 2021/2045 traffic forecast for A171560 in Carteret County.

The forecast includes the following scenarios:

- Base Year (2021) Project No-Build Forecast
- Future Year (2045) Project No-Build Forecast
- Future Year (2045) Project Build Forecast

Fiscal Constraint: Outside of an MPO area travel demand forecasts assume the construction of projects listed within the State Transportation Improvement Program. This forecast is consistent with the current STIP. No other projects within the STIP affect travel demand at project A171560.

Development Activity:

There is no substantial current development under construction within the vicinity of the project. Economic development plans (runway extension and hangar construction) at the Michael J. Smith Airport are expected to be complete by 2045.

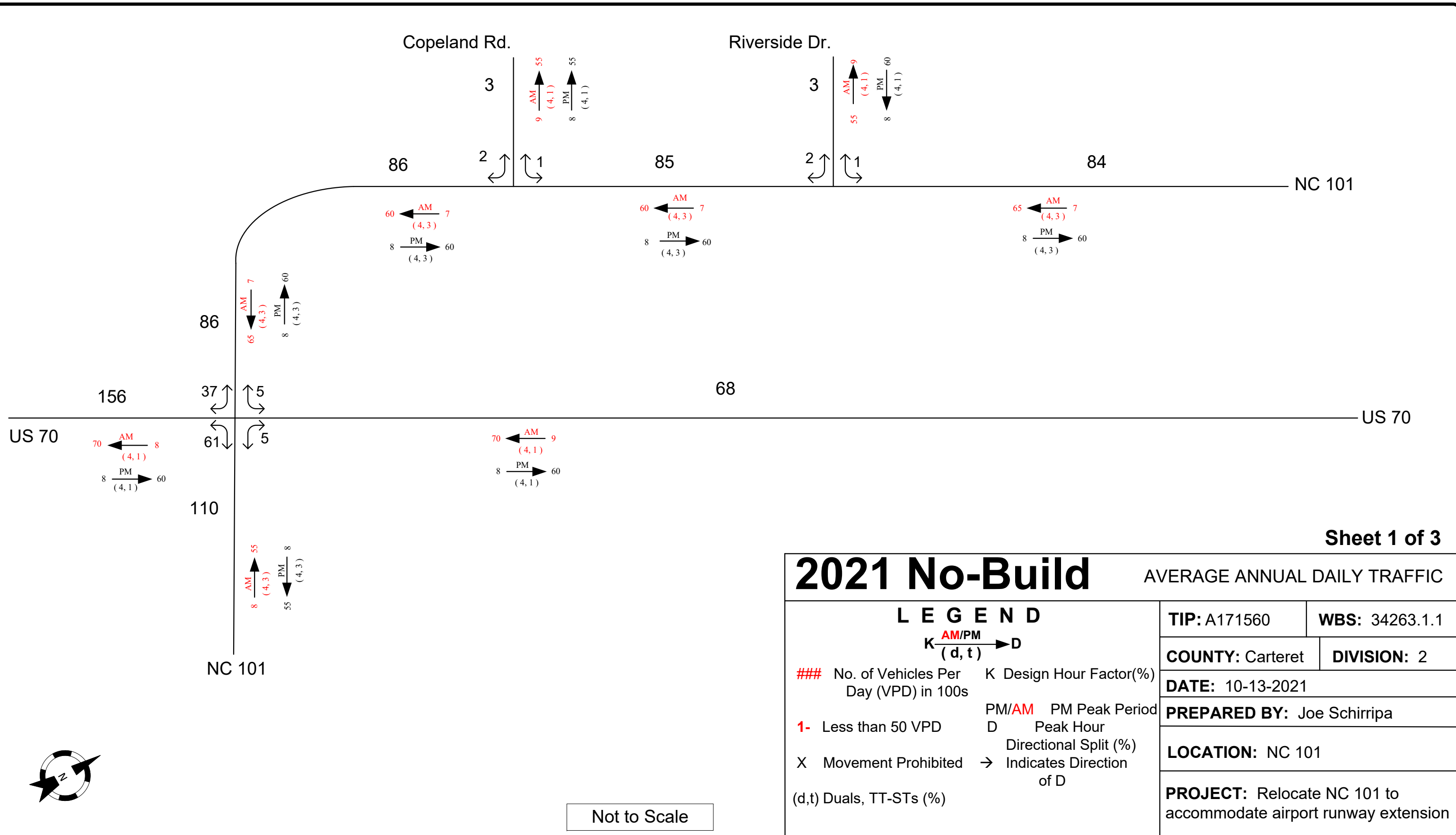
Forecast Methodology:

The 2021 Estimate is based upon current traffic counts and historical AADT trends.

The 2045 Forecast was developed based upon historic AADT trends and population projections for Carteret County prepared by the State Demographers Office. The project-build forecast assumes that NC 101 traffic will divert to the proposed new alignment further north of the airport to access US 70.

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

If we can be of further assistance please contact me at 919-707-0983, email: jaschirripa@ncdot.gov, or Michael Orr at 919-707-0982.



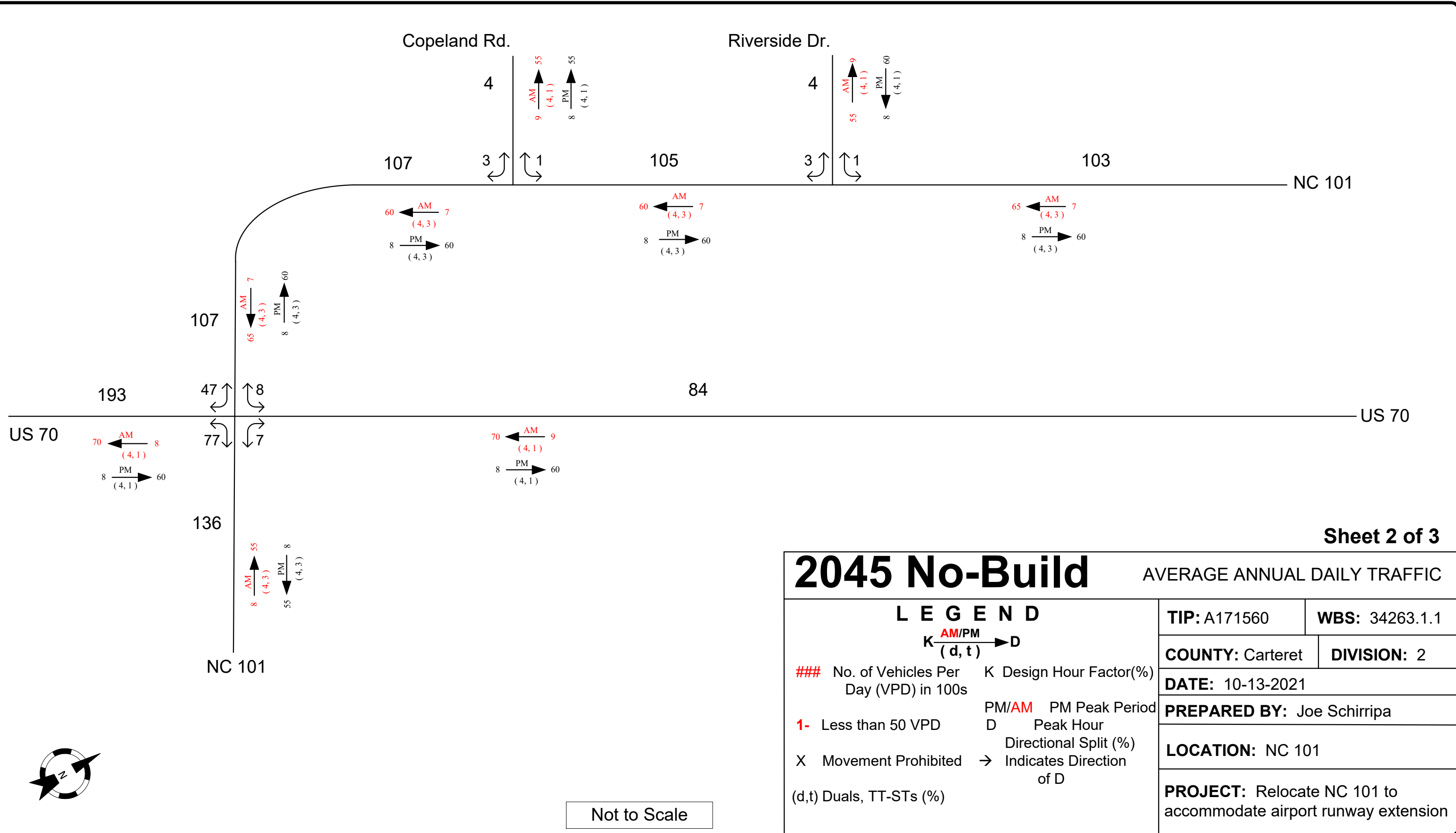
2021 No-Build

AVERAGE ANNUAL DAILY TRAFFIC

TIP: A171560	WBS: 34263.1.1
COUNTY: Carteret	DIVISION: 2
DATE: 10-13-2021	
PREPARED BY: Joe Schirripa	
LOCATION: NC 101	
PROJECT: Relocate NC 101 to accommodate airport runway extension	

Not to Scale



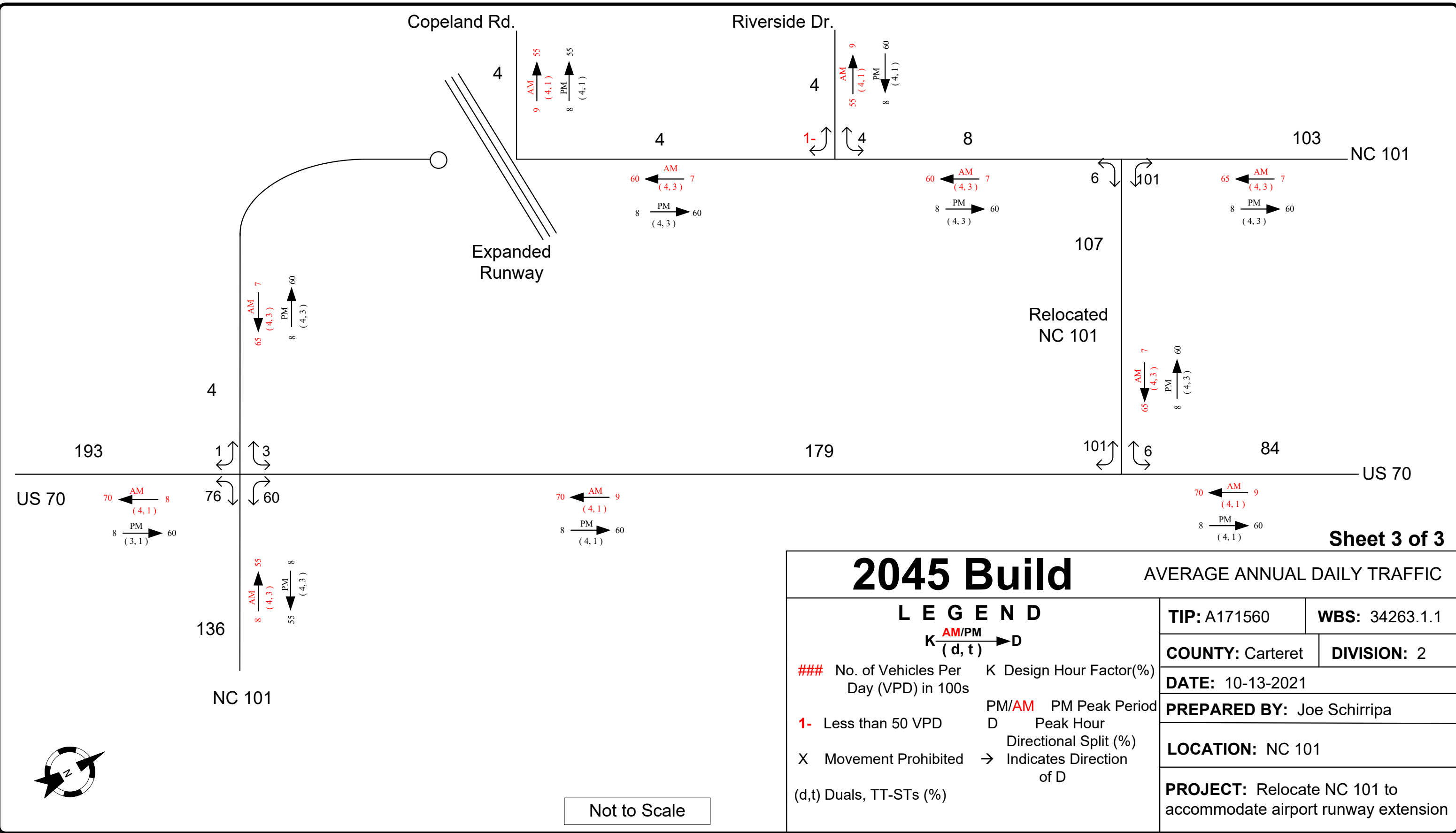


Not to Scale

2045 No-Build

AVERAGE ANNUAL DAILY TRAFFIC

<p>LEGEND</p> <p>K ^{AM/PM} (d, t) → D</p> <p>### No. of Vehicles Per Day (VPD) in 100s</p> <p>1- Less than 50 VPD</p> <p>X Movement Prohibited</p> <p>(d,t) Duals, TT-STs (%)</p>	<p>TIP: A171560</p>		<p>WBS: 34263.1.1</p>
	<p>COUNTY: Carteret</p>		<p>DIVISION: 2</p>
	<p>DATE: 10-13-2021</p>		
	<p>PREPARED BY: Joe Schirripa</p>		
	<p>LOCATION: NC 101</p>		
<p>PROJECT: Relocate NC 101 to accommodate airport runway extension</p>			



Not to Scale