

Traffic Forecast Cover Letter

TO: Amir Nezarati, PE, Project Manager
Transportation Engineering Manager
Town of Apex

FROM: Craig Singer, PE, PTOE, RSP1
Kisinger Campo & Associates, Corp.

DATE: July 22, 2026

RE: Traffic Forecast for Apex Peakway North Widening
Wake County, North Carolina

Please find attached the 2025/2050 Traffic Forecast of project Apex Peakway North Widening in Wake County. This project studies the widening of Apex Peakway from Center Street/Ten Ten Road to Old Raleigh Road from two to four lanes and the addition of turn lanes at the intersection with Center Street/Ten Ten Road.

The forecast includes the following scenarios:

- 2025 Base Year No-Build
- 2050 No-Build
- 2050 Build (Interim - excludes adjacent projects). This scenario is not fiscally constrained and assumes Apex Peakway North Widening is the only completed roadway project by the Design Year 2050. A smaller increase in future volumes is expected in this scenario since the capacity of adjacent roadways will not change.
- 2050 Build (Ultimate - including fiscally constrained adjacent projects)

Fiscal Constraint: The project study area is located in the Capital Area Metropolitan Planning Organization (CAMPO) jurisdiction; therefore, the future year forecasts assume construction of projects listed in CAMPO's 2050 Metropolitan Transportation Plans (MTP). Projects incorporated into the 2050 MTP that coincide with the study limits include:

- A166 - Center St/SR 1010 widening from Apex Peakway to Kildaire Farm Rd
- A410 - Lake Pine Dr/Old Raleigh Rd widening from Cary Parkway to Apex Peakway
- A622 - NC 55 widening from Apex Peakway (South) to Salem St
- A187b1- Apex Peakway (East) new location from Center St / Ten Ten Road to NC 55
- A187b2 - Apex Peakway (East) widening from Laura Duncan to Old Raleigh Road

The Town of Apex advised two projects in the 2050 MTP will not be carried into the upcoming 2055 MTP. The following projects were excluded from future year forecasts:

- A449: Perry Rd at US 1 Interchange

- A717: Schieffelin Rd to Lufkin Rd Connector

Development Activity: There are three developments currently planned within the study area. Traffic analysis reports were obtained from two of the proposed developments and reviewed for incorporation into this forecast. Additionally, traffic forecasts from adjacent roadway projects were reviewed when determining traffic parameters and growth rates.

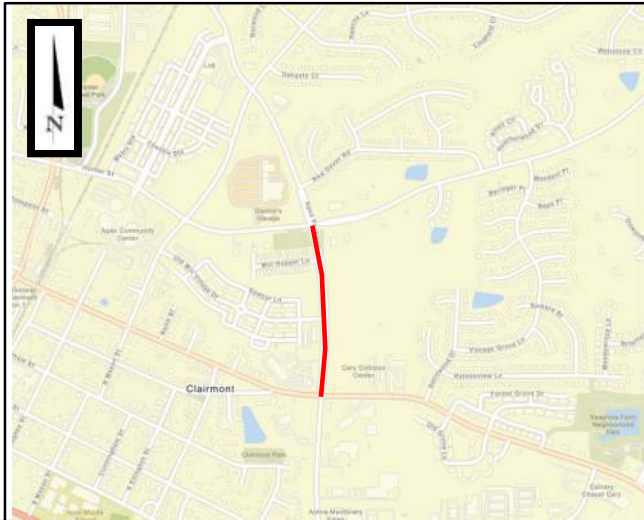
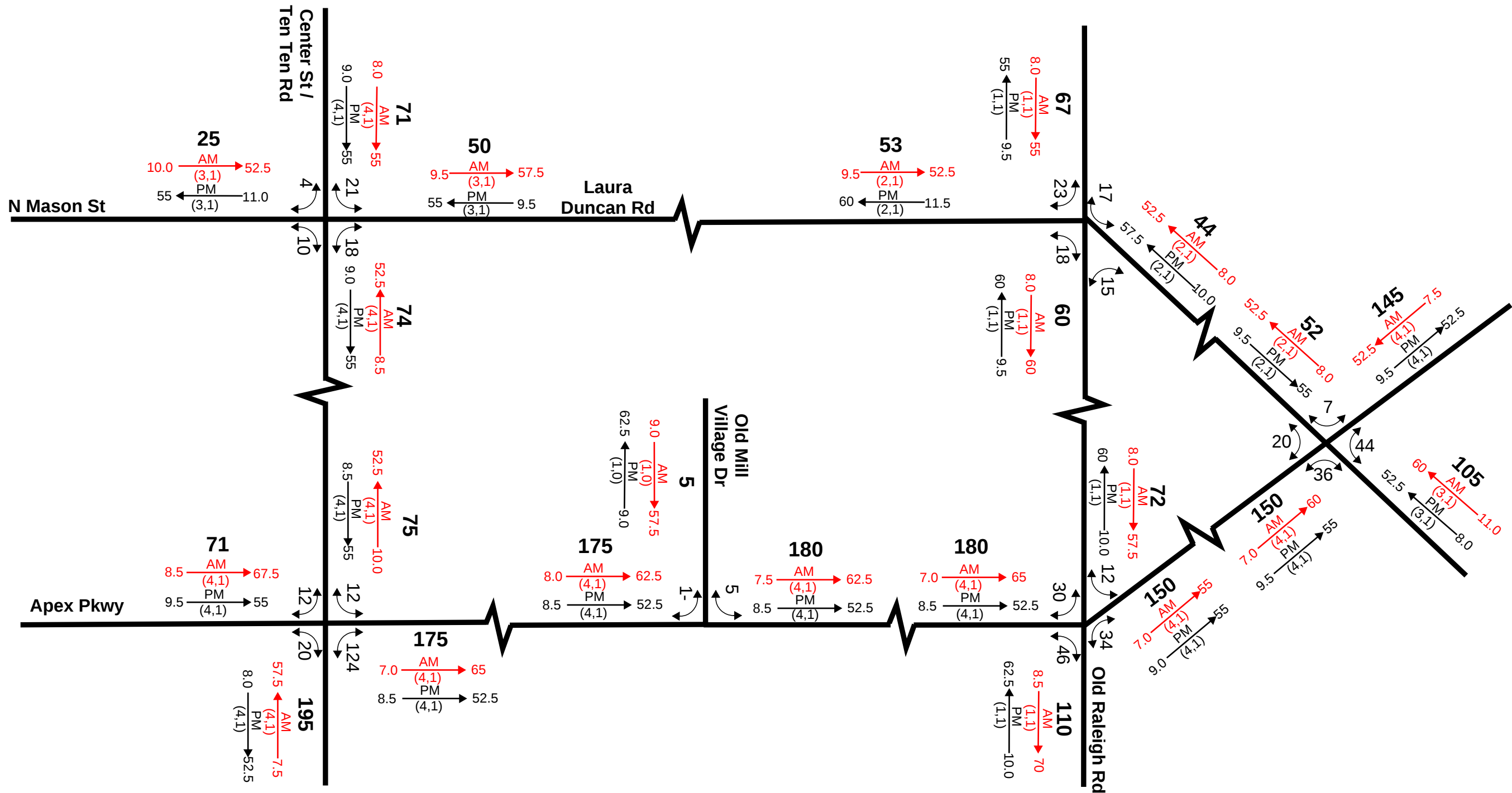
Forecast Methodology: The 2025 estimate is based on current traffic counts validated by historical AADT trends. The 2050 forecast was developed with consideration of the Triangle Regional Model, the North Carolina Statewide Travel Model, population projections for Wake County prepared by the North Carolina Office of State Budget Management, population projections from the Town of Apex Comprehensive Transportation Plan, data from the Connect 2050 MTP, and available historical AADT volumes. The 2055 Triangle Regional Model was not used in this study as it represents construction activities beyond the Design Year 2050.

Interpolation: The use of linear interpolation to estimate AADT for years between 2025 and 2050 is acceptable. AADT volumes may be extrapolated for up to two years immediately following 2050. 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 do not hesitate to contact me at 919-882-7839, email: csinger@kcaeng.com

cc: (with attachments) Amir Nezarati, Town of Apex PM, Andrea Gordon, KCA PM, and Makayla Thornhill, KCA Designer

- AmirNezarati@apexnc.org
- AGordon@kcaeng.com
- MThornhill@kcaeng.com



2025

ANNUAL AVERAGE DAILY TRAFFIC

NO BUILD

SHEET 1 - 4

LEGEND

No. of Vehicles Per Day (VPD) in 100s
1- Less than 50 VPD
X Movement Prohibited
----- Proposed Roadway

K Design Hour Factor (%)
AM/PM PM Peak Period
D Peak Hour Directional Split
Indicates Direction of D
(d, t) Duals, TT-STs (%)

Apex Peakway North Widening

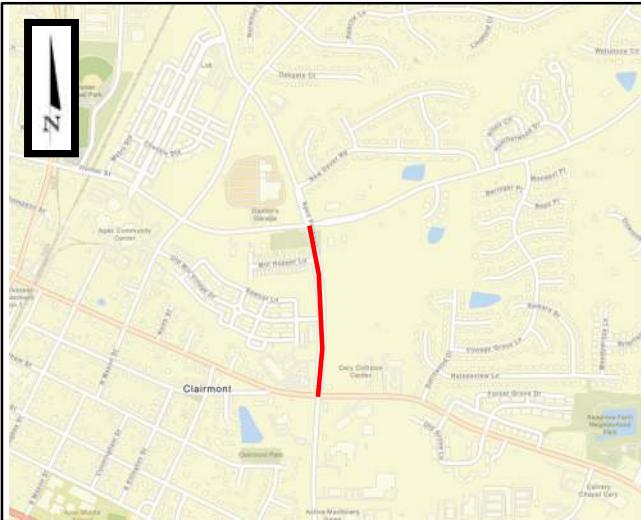
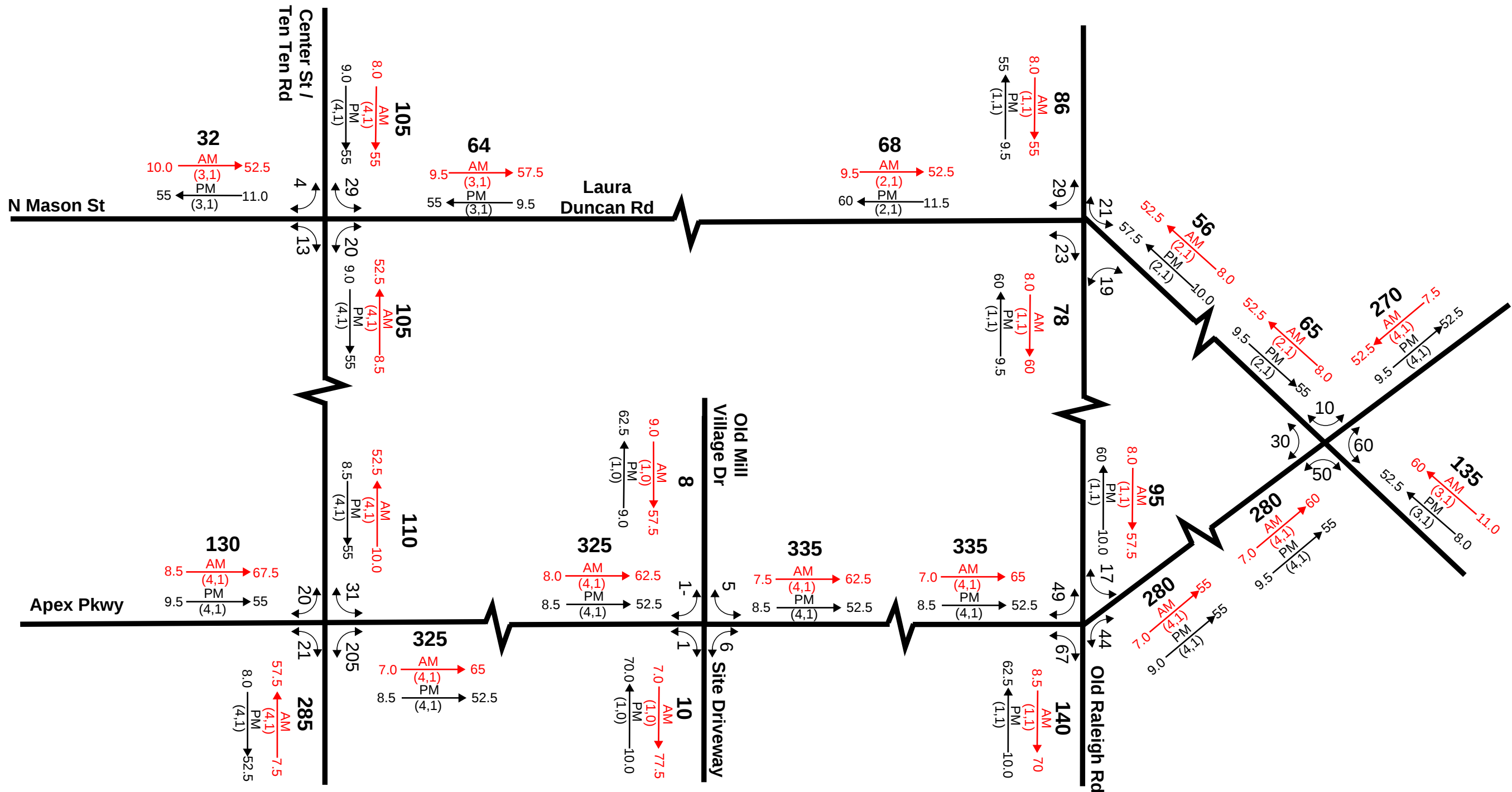
COUNTY: Wake

DATE: 07-22-2026

PREPARED BY: KCA

LOCATION:
Apex Peakway from SR 1010 to SR 1308

PROJECT:
Widen Apex Peakway to 4-lanes & add turn lanes at intersection with SR 1010



2050

ANNUAL AVERAGE DAILY TRAFFIC

LEGEND

No. of Vehicles Per Day (VPD) in 100s

1- Less than 50 VPD

X Movement Prohibited

----- Proposed Roadway

K Design Hour Factor (%)

AM/PM PM Peak Period

D Peak Hour Directional Split

Indicates Direction of D

(d, t) Duals, TT-STs (%)

NO BUILD

SHEET 2 - 4

Apex Peakway North Widening

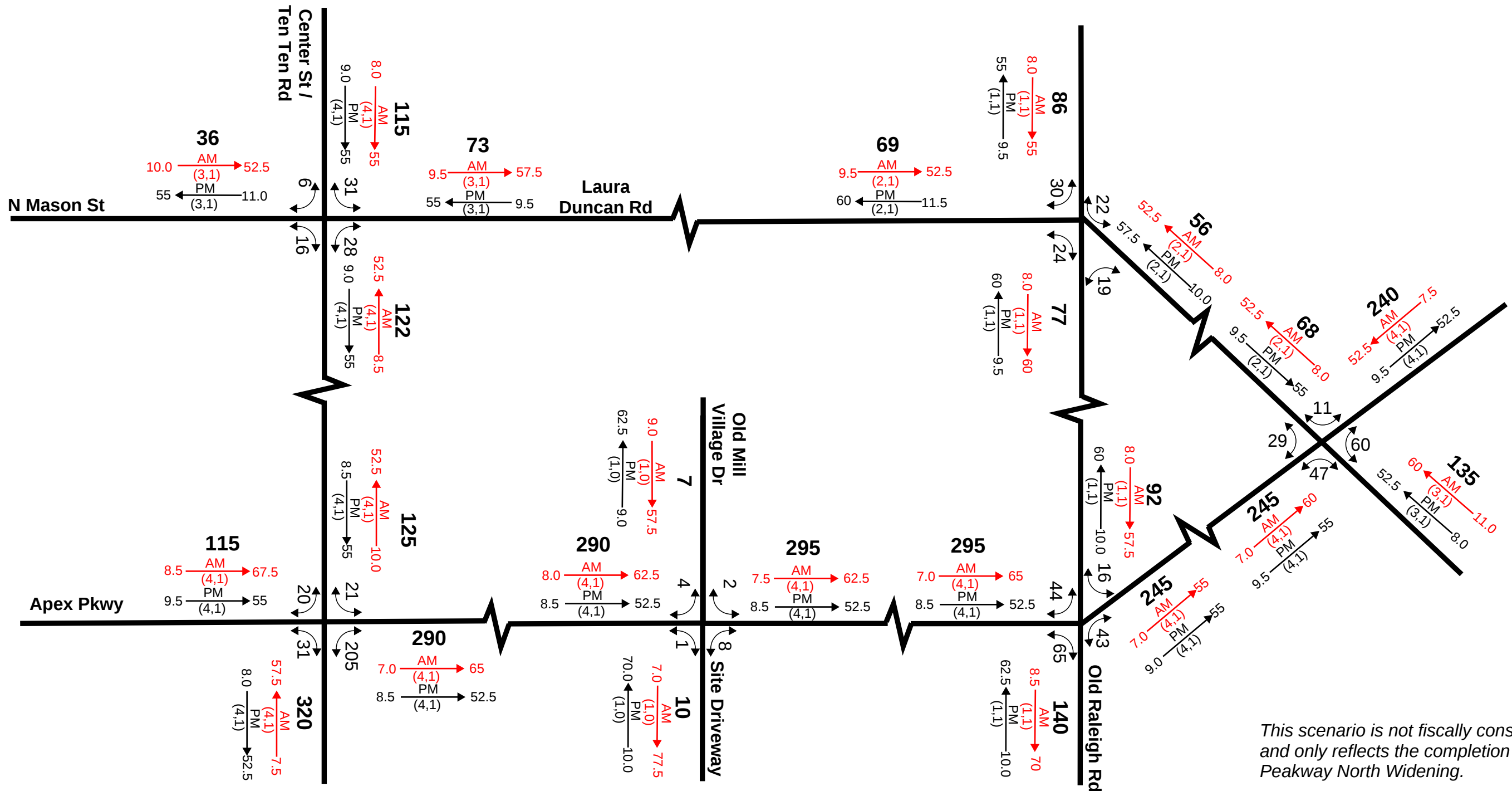
COUNTY: Wake

DATE: 07-22-2026

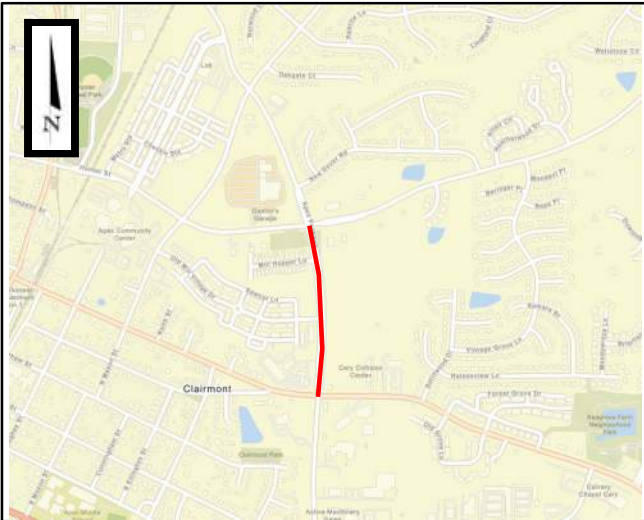
PREPARED BY: KCA

LOCATION:
Apex Peakway from SR 1010 to SR 1308

PROJECT:
Widen Apex Peakway to 4-lanes & add turn lanes at intersection with SR 1010



This scenario is not fiscally constrained and only reflects the completion of Apex Parkway North Widening.



2050 ANNUAL AVERAGE DAILY TRAFFIC

BUILD (INTERIM) SHEET 3 - 4

LEGEND

- ### No. of Vehicles Per Day (VPD) in 100s
1- Less than 50 VPD
X Movement Prohibited
----- Proposed Roadway
- K Design Hour Factor (%)
AM/PM PM Peak Period
D Peak Hour Directional Split
Indicates Direction of D (d, t) Duals, TT-STs (%)
- AM/PM
K (d, t) D

Apex Parkway North Widening

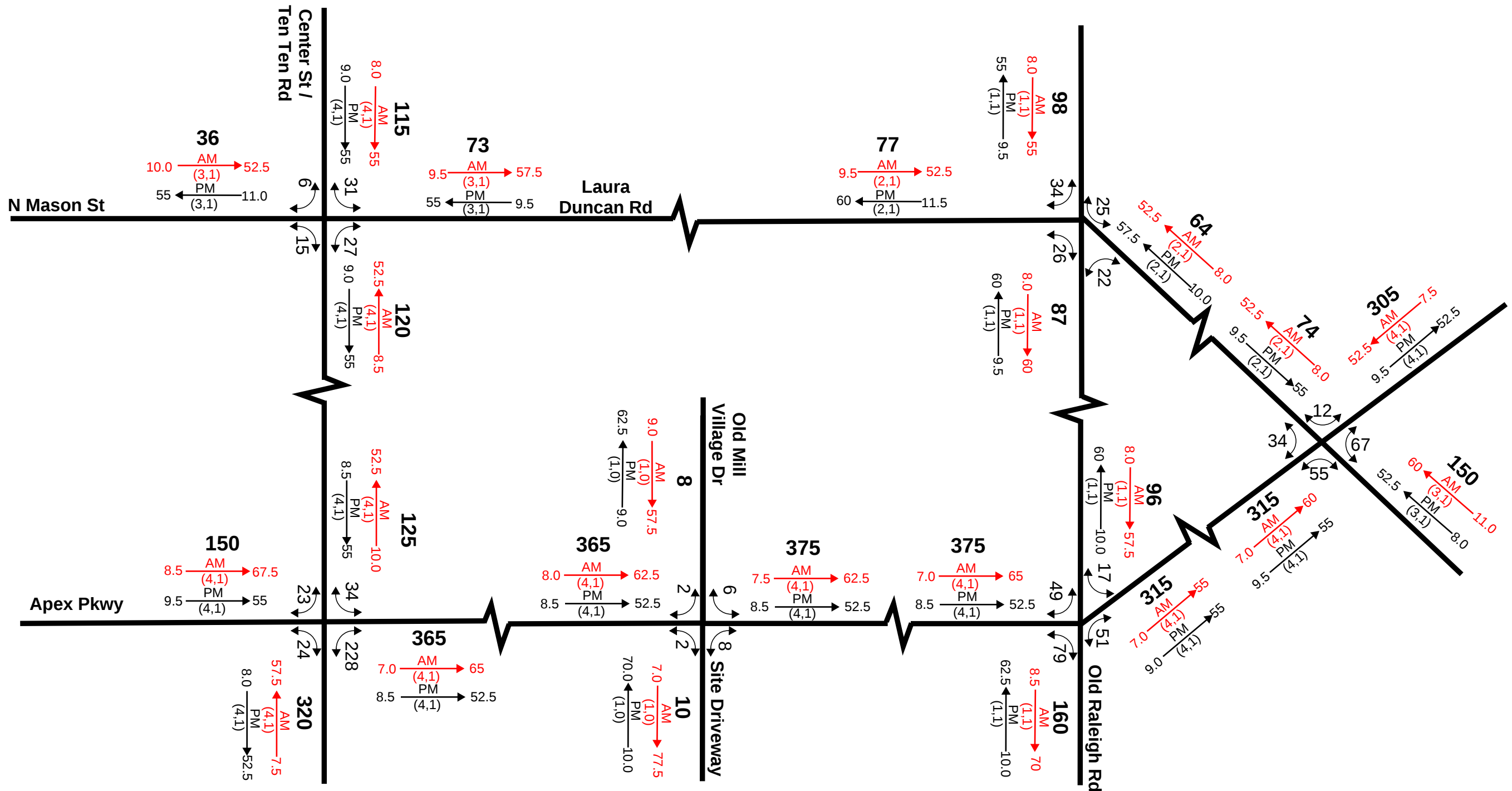
COUNTY: Wake

DATE: 07-22-2026

PREPARED BY: KCA

LOCATION:
Apex Parkway from SR 1010 to SR 1308

PROJECT:
Widen Apex Parkway to 4-lanes & add turn lanes at intersection with SR 1010



2050 ANNUAL AVERAGE DAILY TRAFFIC

BUILD (ULTIMATE) SHEET 4 - 4

L E G E N D			Apex Peakway North Widening	
			COUNTY: Wake	
			DATE: 07-22-2026	
			PREPARED BY: KCA	
			LOCATION: Apex Peakway from SR 1010 to SR 1308	
			PROJECT: 4-lanes & add turn lanes at intersection with SR 1010	

No. of Vehicles Per Day (VPD) in 100s
1- Less than 50 VPD
X Movement Prohibited
----- Proposed Roadway

K Design Hour Factor (%)
AM/PM PM Peak Period
D Peak Hour Directional Split
Indicates Direction of D
(d, t) Duals, TT-STs (%)

AM/PM
(d, t) → D