

Triangle Expressway Wrong-Way Driver Detection & Notification Pilot Program

Implementation at Toll NC 147 / Davis Drive Interchange Northbound Off-Ramp

At this off-ramp, wrong-way drivers are detected through the use of roadside technology, and alerts are provided in real-time to drivers and Turnpike Authority Traffic Management Center operators. In addition, traffic signals, signs, and pavement markings have been enhanced to help deter wrong-way turns at the ramp intersections.

TRAFFIC SIGNAL,
PAVEMENT MARKINGS
& SIGNING

1 Enhanced Traffic Signal Heads
Traffic signal heads now display green directional arrows to indicate "no turns".





2 New Enhanced Signs
Oversized static signs reinforce
prohibited traffic moves.



ROADSIDE TECHNOLOGY Radar Detection

Detects vehicles driving in the wrong direction on the off-ramp.



4 Wrong-Way Electronic Signs

Once a wrong-way vehicle is detected by radar, red flashing lights are activated to alert the driver.



5 Incoming/Outgoing Cameras

Two-directional cameras provide realtime wrong-way driving verification information to Turnpike Authority Traffic Management Center operators.



6 Verification/Confirmation Camera

If the driver does not correct their direction of travel on the ramp, this camera provides verification of continued wrong-way driving on the Expressway.







Triangle Expressway Wrong-Way Driver Detection & Notification Pilot Program

Implementation at Toll NC 540 / S. Salem Street Interchange Southbound Off-Ramp

At this off-ramp, wrong-way drivers are detected through the use of roadside technology, and alerts are provided in real-time to drivers and Turnpike Authority Traffic Management Center operators. In addition, traffic signals, signs, and pavement markings have been enhanced to help deter wrong-way turns at the ramp intersections.

TRAFFIC SIGNAL, PAVEMENT MARKINGS & SIGNING

1 Enhanced Pavement Markings
New pavement markings increase the ramp
intersection visibility and reinforce the prohibited
traffic movement.



ROADSIDE TECHNOLOGY

Radar Detection

Detects vehicles driving in the wrong direction on the off-ramp.



3 Wrong-Way Electronic Signs

Once a wrong-way vehicle is detected by radar, red flashing lights are activated to alert the driver.



4 Incoming/Outgoing Cameras

Two-directional cameras provide real-time, wrongway driving verification information to Turnpike Authority Traffic Management Center operators.



5 Verification/Confirmation Camera

If the driver does not correct their direction of travel on the ramp, this camera provides verification of continued wrong-way driving on the Expressway.







Triangle Expressway Wrong-Way Driver Detection & Notification Pilot Program

Implementation at Green Level West Mainline Toll Zone

At this mainline toll zone, wrong-way drivers are detected through the use of roadside technology, and alerts are provided in real-time to drivers and Turnpike Authority Traffic Management Center operators.





Wrong Way Driver Detection & Notification Pilot Program

Comprehensive Program Infographic

