PLEASE CIRCULATE INFORMLITION GREG BREW LISA HEIMBURG SEPIDEH ASSEPNIA PATRICA TEDDER MAURY OWENS RICH HARRISON TRAINEE METZLER OUSER . BASS BAGGERT O'DELL TRAINEE JOHN LANSFORD RILEY REHBERG PHILLP EDWARDS HERBIE PROCTOR GHAZI RARRAWI BENNETT FOWLER

U.S. DEPARTMENT OF TRANSPORTATION

FEDERAL HIGHWAY ADMINISTRATION REGION FOUR

310 New Bern Avenue, Suite 410 Raleigh, North Carolina 27601 January 6, 1993

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ROADWAY DESIGN UNIT RECEIVED FILE

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ALFORD In Reply Refer To: HO-NC

Mr. D. R. Morton, P.E. State Highway Design Engineer Division of Highways Raleigh, North Carolina

Dear Mr. Morton:

Continuous Two-Way Left Turn Lanes Subject:

The use of continuous two-way left turn lanes on undivided multilane facilities is briefly discussed in Chapter 9 of the 1990 AASHTO Policy on Geometric Design of Highways and Streets (Green In general, these lanes should be used only in urban settings where operating speeds are relatively low and there are no more than two through lanes in each direction. Caution is recommended when more than a five lane section is considered. Due to high traffic demand and high right of way cost in urban areas, several States in FHWA's Region 4 have considered or constructed a seven-lane urban street with the center lane used as a continuous two-way left turn lane.

Georgia has recently converted a seven-lane urban arterial to a six-lane facility with a raised median, allowing left turns or Uturns at signalized intersections only. Attached is a preliminary (report summarizing the change in accident rate for the first year. Although the report does not include the statistics, there were no fatalities on the highway during its first year after the median was installed. The average fatality rate for the previous eleven years was approximately one per year with five of the fatalities being pedestrians.

We believe the study results support a policy that a seven-lane section with a continuous two-way left turn lane should not be We will be happy to discuss this matter considered acceptable. further should you so desire.

Sincerely yours,

Nicholas L. Graf, P.E. Division Administrator

cc:

mr. G. T. Shearin, P.E., NCDOH

Mr. L. J. Ward, P.E., NCDOH

Mr. J. M. Lynch, P.E., NCDOH

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