

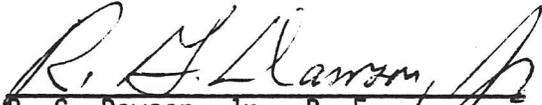
FEASIBILITY STUDY

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Kernersville  
Industrial Park Drive Extension  
From NC 66 to SR 2601  
Forsyth County, U-2541

Prepared by  
Planning and Environmental Branch  
Division of Highways  
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I. GENERAL DESCRIPTION

This report covers a preliminary study of the proposed extension of Industrial Park Drive from NC 66 to SR 2601 (Macy Grove Road) in Kernersville. The project is approximately 0.7 mile in length (see Figure 1). It is included in the 1990-1996 Transportation Improvement Program for feasibility study and/or right-of-way protection. It is not currently funded for design, right-of-way acquisition, or construction.

II. PURPOSE OF PROJECT

Route Characteristics

The proposed connector will provide a major east-west route through southeastern Kernersville. In combination with other streets, the connector will also function as part of a loop facility serving the city. It is classified as a major thoroughfare on the Winston-Salem/Forsyth County Thoroughfare Plan which was adopted in December, 1987 (see Figure 2).

A segment of Industrial Park Drive approximately 0.2 miles long on the eastern end of the project has already been constructed. The existing cross section on this segment is a 20-foot paved roadway with 3-foot unpaved shoulders.

Traffic Volumes and Capacity

The projected traffic volume on Industrial Park Drive is 9,600 vehicles per day in 2010. With two lanes, the connector should operate at Level of Service D or better through most of the planning period. However; by the end of the planning period, a five-lane cross section will be required to handle the projected traffic at a desirable level of service.

Need for Project

The proposed project is needed to provide a vital link in the Town of Kernersville's loop facility. The construction of Industrial Park Drive will also provide relief for the growing problem of congestion on the existing routes. The connection between NC 66 and Macy Grove Road will improve access in this developing industrial park area and open new land to development. If an interchange between Macy Grove Road and I-40 Business is constructed, as proposed in the thoroughfare plan, it will greatly enhance the need for this project, and this interchange will help Industrial Park Drive reach its full potential as a thoroughfare.

### III. RECOMMENDATIONS AND COSTS

It is recommended Industrial Park Drive be extended to connect between NC 66 and Macy Grove Road in Kernersville. The recommended improvement is a five-lane curb and gutter cross section, 64 feet from face to face of curbs. A 100-foot right-of-way, plus construction easements as needed, are anticipated for the proposed roadway. It is anticipated traffic signals will be needed at both project terminals (NC 66 and Macy Grove Road).

The total estimated costs of this project are as follows:

Construction	\$ 2,050,000
Right-of-Way	<u>520,000</u>
TOTAL	\$ 2,570,000

The construction cost includes engineering and contingencies, and the right-of-way cost includes acquisition and utility costs.

### IV. STAGING

If the total cost of the project is too high to fund initially, the project could be staged as a two-lane roadway with sufficient right-of-way for the ultimate five-lane cross section. Left-turn lanes should be provided at major intersections to avoid congestion. Constructing the two-lane roadway would result in an initial construction cost savings of \$1,100,000.

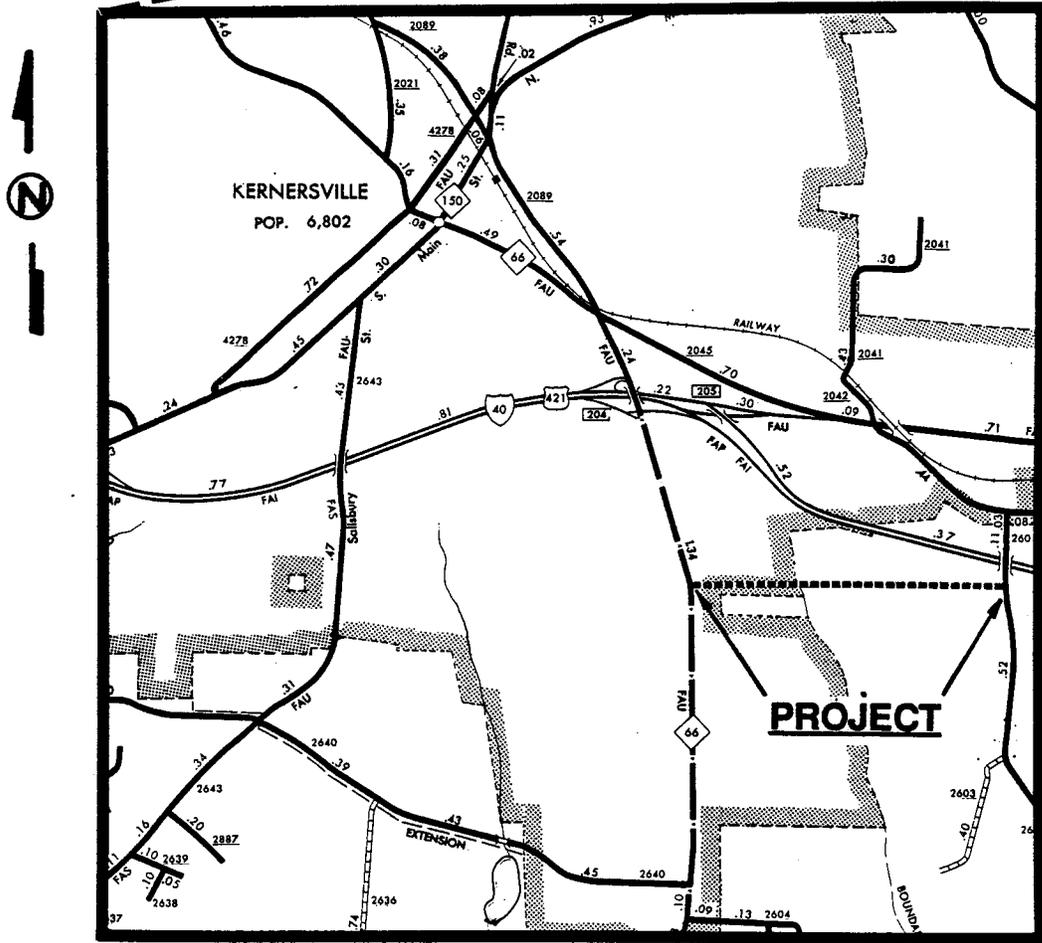
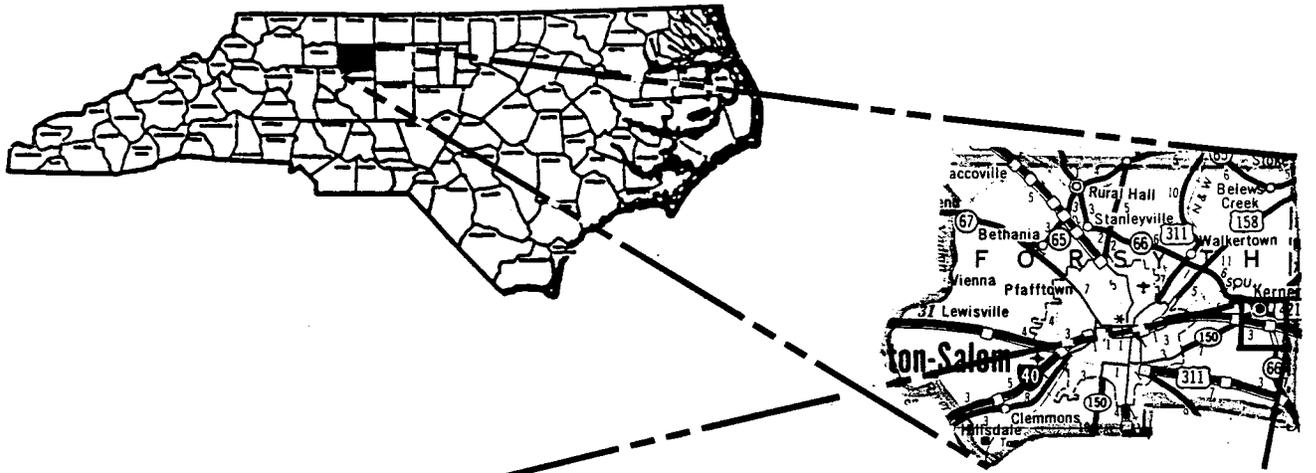
### V. ENVIRONMENTAL EFFECTS

The implementation of the proposed project is not expected to result in any significant impact on the environment. The project will not require the relocation of any residences or businesses. The project will result in increased noise levels for development near the proposed roadway. Limited wetland involvement can be expected at the crossing of the small stream located near the center of the project. Other impacts will be primarily related to the actual construction of the proposed roadway. These include minor erosion and siltation and increased noise levels from construction machinery.

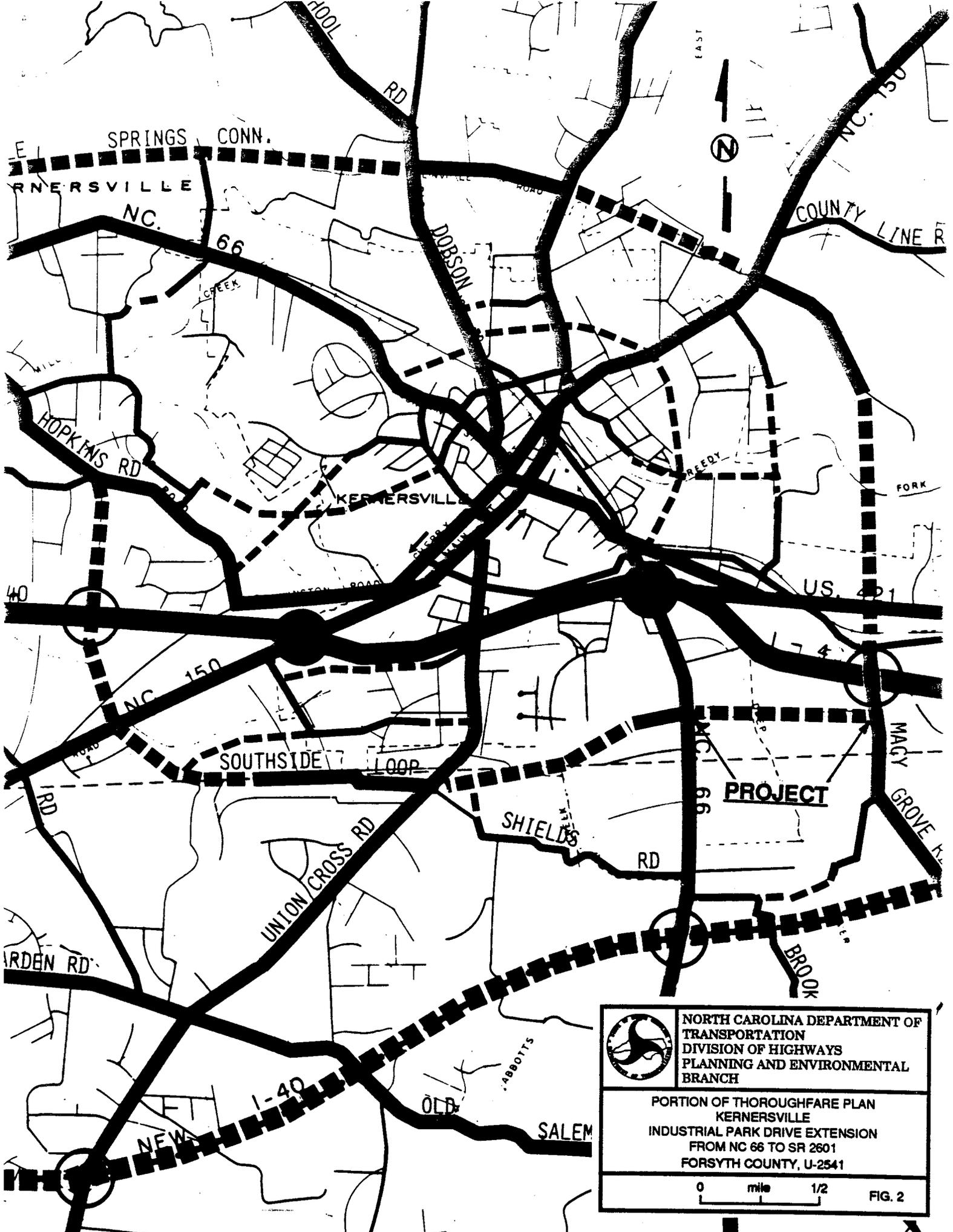
### VI. FUTURE ACTIVITIES

If the project is to be implemented at a future date, all feasible alternatives and their associated impacts will need to be evaluated in a planning/environmental document prior to that time, and a decision made as to the most appropriate improvement.

RBD/plr



	<p><b>NORTH CAROLINA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS PLANNING AND ENVIRONMENTAL BRANCH</b></p>
<p><b>KERNERSVILLE INDUSTRIAL PARK DRIVE EXTENSION FROM NC 66 TO SR 2601 FORSYTH COUNTY, U-2541</b></p>	
<p style="text-align: right;">FIG. 1</p>	



EAST



	<p><b>NORTH CAROLINA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS PLANNING AND ENVIRONMENTAL BRANCH</b></p>
	<p>PORTION OF THOROUGHFARE PLAN KERNERSVILLE INDUSTRIAL PARK DRIVE EXTENSION FROM NC 66 TO SR 2601 FORSYTH COUNTY, U-2541</p>
<p>0      mile      1/2      FIG. 2</p>	