

FEASIBILITY STUDY

FS-0201D

(U-5001)

**Construct a Connector From US 17 Business/NC 32
(Virginia Street) To SR 1204 (West Queen Street)**

Chowan County

Division 1



Prepared by the
Program Development Branch
N. C. Department of Transportation

A handwritten signature in black ink, appearing to read "Henry U. Esezuka", is written over a horizontal line.

Henry U. Esezuka
Feasibility Studies Engineer

A handwritten signature in black ink, appearing to read "Derrick W. Lewis", is written over a horizontal line.

Derrick W. Lewis, P.E.
Feasibility Studies Unit Head

10/3/05

Date

**Western Connector, From NC 32 (Virginia Street)
To SR 1204 (West Queen Street)
In Edenton**

Chowan County

FS-0201D

I. General Description

This feasibility study describes the construction of a new connector from NC 32 (Virginia Street) to SR 1204 (West Queen Street), a distance that varies between 0.85 and 1.2 miles, depending upon the alternative selected. The project location is shown on Figure 1. As part of this study, two different alternatives were investigated, the details of which are described below:

ALTERNATE 1: Three-lane curb and gutter section, 40-foot wide face to face of curbs, on 100 feet right-of-way. This alternative proposes to upgrade existing Luke Street, then proceeds on new location to intersect West Queen Street near the Albania Street intersection, a distance of approximately 1.2 miles.

ALTERNATE 2: Three-lane curb and gutter section, 40-foot wide face to face of curbs, on 100 feet of right-of-way. This alternative proposes to upgrade existing Luke Street from NC 32 (Virginia Street) to the end of Luke Street, then proceed on new location to intersect Twiddy Avenue south of Albania Street. Continuing the upgrades on Twiddy Avenue until it intersects West Queen Street, a total distance of 0.85 miles.

This study is the initial step in the planning and design process for this project and is not to be considered the product of exhaustive environmental or design investigations. The purpose of the study is to describe the problem, recommend a treatment including costs, and identify potential problem areas that deserve consideration in the planning and design phases.

This alternative is anticipated to impact a Confederate Soldier's graveyard along the new location section, north of Martin Luther King Jr. Street.

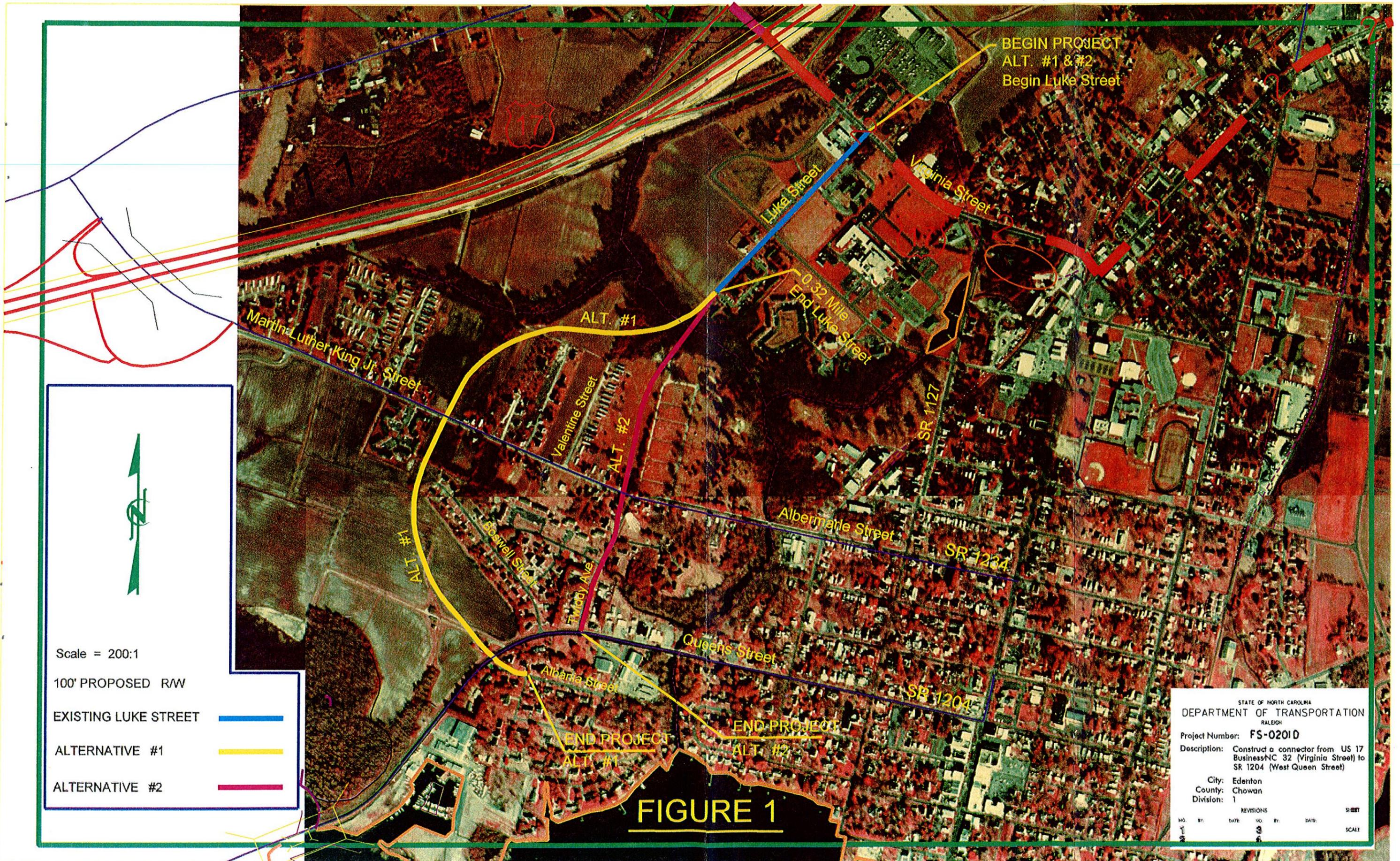
Our analysis shows that either of the alternatives would operate at a LOS "C" or better through the 2030 design year. Although, Alternate #1 is longer, it costs approximately \$300,000 less, it will not adversely impact a Confederate Soldier's Cemetery and concurs with the approved thoroughfare plan. Therefore, Alternate #1 is the recommended alternative for this project.

VI). Additional Comments

It should be noted that Albania, a landmark site on the National Historic Register, is located approximately one-half mile south of West Queen Street and Albania Street junction on Albania Street. However, no direct impacts to this historic property are anticipated as a result of this project.

A detailed environmental study was not conducted for this feasibility study. However, this project falls in an environmentally sensitive area. Impacts to wetlands are expected, and permits with the U.S. Army Corps of Engineers may be necessary. Finally, no impacts to threatened or endangered species are anticipated in the project area.

No special accommodation for bicycles is recommended on this project.



BEGIN PROJECT
ALT. #1 & #2
Begin Luke Street

ALT. #1

ALT. #2

END PROJECT
ALT. #1

END PROJECT
ALT. #2

FIGURE 1

Scale = 200:1

100' PROPOSED R/W

EXISTING LUKE STREET

ALTERNATIVE #1

ALTERNATIVE #2

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

Project Number: **FS-0201D**

Description: Construct a connector from US 17 Business/NC 32 (Virginia Street) to SR 1204 (West Queen Street)

City: Edenton
County: Chowan
Division: 1

REVISIONS		SHEET	
NO.	DATE	NO.	SCALE
1		3	
2		6	