



**DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA**

**INTERDEPARTMENT CORRESPONDENCE**

**FILE** BRN-030-1(15) Webster County **OFFICE** Preconstruction  
P.I. No. 322600 **DATE** June 14, 1994

**FROM** Hoyt J. Lively, Jr., P.E., Director of Preconstruction

**TO** Wayne Shackelford, Commissioner

**SUBJECT** PROJECT CONCEPT REPORT

This project is the replacement of the bridge on US 280/SR 27 over Choctohatchee Creek east of Preston. The existing structurally deficient bridge is 73.15 m x 7.71 m, constructed with timber piles, steel beams, and concrete deck with a sufficiency rating of 41.7. The existing approaches consist of 7.32 m paving with 1.83 m rural shoulders. The base year traffic (1999) is 2750 VPD and the design year traffic (2019) is 4600 VPD. Posted speed is 55 MPH and the design speed is 90 KPH.

The proposed replacement structure is a 92.0 m x 13.4 m bridge. The proposed approaches will be 7.2 m wide with 2.4 m rural shoulders. Traffic will be maintained through construction utilizing an on-site runaround detour.

Environmental concerns include requiring a Nationwide 404 permit; A Programmatic 4f will be prepared (constructed in 1939 with steel stringers, 106/4f involvement is anticipated); a public hearing is not required; time saving procedures are appropriate.

Estimated costs for this project are:

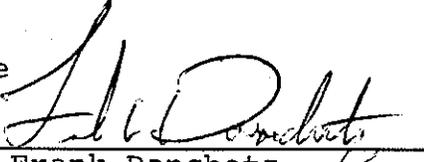
	<u>PROPOSED</u>	<u>APPROVED</u>	<u>PROG. DATE</u>
Constr(Infl&E/C)	\$1,340,000	\$765,000	1997
Rights-of-way	\$15,000	\$1,000	96-09
Utilities	*LGPA		

\*LGPA will be sent in 1995.

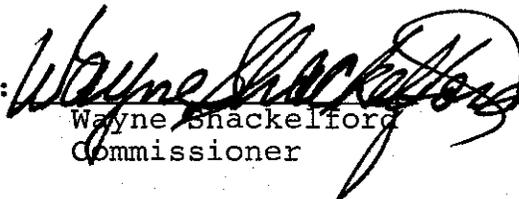
This project is in the STIP. I recommend this project concept be approved.

HJL/JDQ/se

CONCUR:

  
Frank Danchetz  
Chief Engineer

APPROVED:

  
Wayne Shackelford  
Commissioner

DEPARTMENT OF TRANSPORTATION

STATE OF GEORGIA

RECEIVED

APR 22 1994

PRECONSTRUCTION

INTERDEPARTMENT CORRESPONDENCE

FILE BRN-030-1(15) WEBSTER OFFICE Atlanta, Georgia  
P. I. No. 322600  
SR 27 @ CHOCTOHATCHEE CREEK DATE APRIL 19, 1994

FROM Bob Mustin, P.E., Project Review Engineer *BMW*

TO C. Wayne Hutto, Assistant Director of Preconstruction

SUBJECT PROJECT CONCEPT REPORT

The attached concept report has been review and is considered satisfactory.

The estimated costs for this project are as follows:

Construction	\$ 1,067,000
Inflation	\$ 160,000
E & C	\$ 113,000
Right of Way	\$ 15,000
Reimburseable Utilities	\$ ? (LGPA)

DTM

Attachments

c: Van Etheridge

DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA

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MAY 12 1994

PRECONSTRUCTION

INTERDEPARTMENT CORRESPONDENCE

FILE BRN-030-1 (15) Webster County OFFICE Environment/Location  
 P.I.NO. 322600  
 SR 27 @ Choctohatchee Crk DATE May 10, 1994

FROM David E. Studstill, P.E., State Environmental/Location Engineer  
 TO Bobby Mustin, Project Review Engineer

SUBJECT CONCEPT REPORT

The concept report for the above listed project has been reviewed. The bridge was constructed in 1939 with steel stringers; therefore, 106/4(f) involvement is anticipated.

If you have any questions, please let me know.

DES/JSS/jaf

cc: D. Van Etheridge

**DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA**

**INTERDEPARTMENT CORRESPONDENCE**

**FILE:** BRN-030-1(15) Webster  
P.I.No. 322600  
SR 27 (US 280) over  
Choctohatchee Creek

**OFFICE:** Thomaston

**DATE:** April 5, 1994

**FROM:** D. Van Etheridge, District Engineer *DVE*

**TO:** Bobby Mustin, State Project Review Engineer

**SUBJECT: PROJECT CONCEPT REPORT/CONSTRUCTION COST ESTIMATE**

Attached is the Project Concept Report/Construction Cost Estimate on the above project for your review and further handling.

JAL:GEB

c: Wayne Hutto

c/att: Marvin Helms (Concept Report Only)  
David Studstill (Concept Report Only)  
Paul Liles (Concept Report Only)  
David Millen (Concept Report Only)  
Jim Kennerly (Concept Report & Cost Estimate)  
Joe Leoni (Concept Report & Cost Estimate)  
Lem Dobbs (Cost Estimate Only)  
Percy Middlebrooks (Cost Estimate Only)  
Ethel White (Cost Estimate Only)  
Design File (Cost Estimate Only)



DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA

PROJECT CONCEPT REPORT

Bridge Replacement  
State Route 27 (US 280) over Choctohatchee Creek  
Webster County

BRN-030-1(15)

Federal Route No.: 280  
State Route No: 27  
GaDOT P.I.No.: 322600

SEE LOCATION SKETCH  
(Next Page)

Date of Report: April 5, 1994

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RECOMMENDATION OF APPROVAL

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4-7-94

Date

*D. V. Ethridge*

District Engineer

Date

State Road & Airport Design Engineer

Date

State Environmental Engineer

4/13/94

Date

*Paul V. Tuller Jr.*

State Bridge & Structural Design Engineer

DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

RECEIVED

APR 21 1994

PRECONSTRUCTION  
Atlanta, GA

FILE BRN-030-1(15) Webster County  
P.I. No. 322600

OFFICE

DATE

Atlanta, GA  
April 20, 1994

FROM *James A. Kennerly HCA*  
James A. Kennerly, State Road & Airport Design Engineer

TO Bobby Mustin, State Project Review Engineer

SUBJECT PROJECT CONCEPT REPORT

The Concept Report for this project has been reviewed and is considered to be satisfactory except as noted below:

- 1. The PDP classification is "Minor Existing".

A signed Concept Report Cover Sheet is attached for your use.

JAK:PDP:pef

xc: Van Etheridge  
Wayne Hutto  
Marion Waters  
David Studstill  
Paul Liles

DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA

PROJECT CONCEPT REPORT

Bridge Replacement  
State Route 27 (US 280) over Choctohatchee Creek  
Webster County

BRN-030-1(15)

Federal Route No.: 280  
State Route No: 27  
GaDOT P.I.No.: 322600

SEE LOCATION SKETCH  
(Next Page)

Date of Report: April 5, 1994

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RECOMMENDATION OF APPROVAL

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4-7-94

Date

District Engineer

*D. V. Ethridge*

4-20-94

Date

State Road & Airport Design Engineer

*James A. Kennel*

Date

State Environmental Engineer

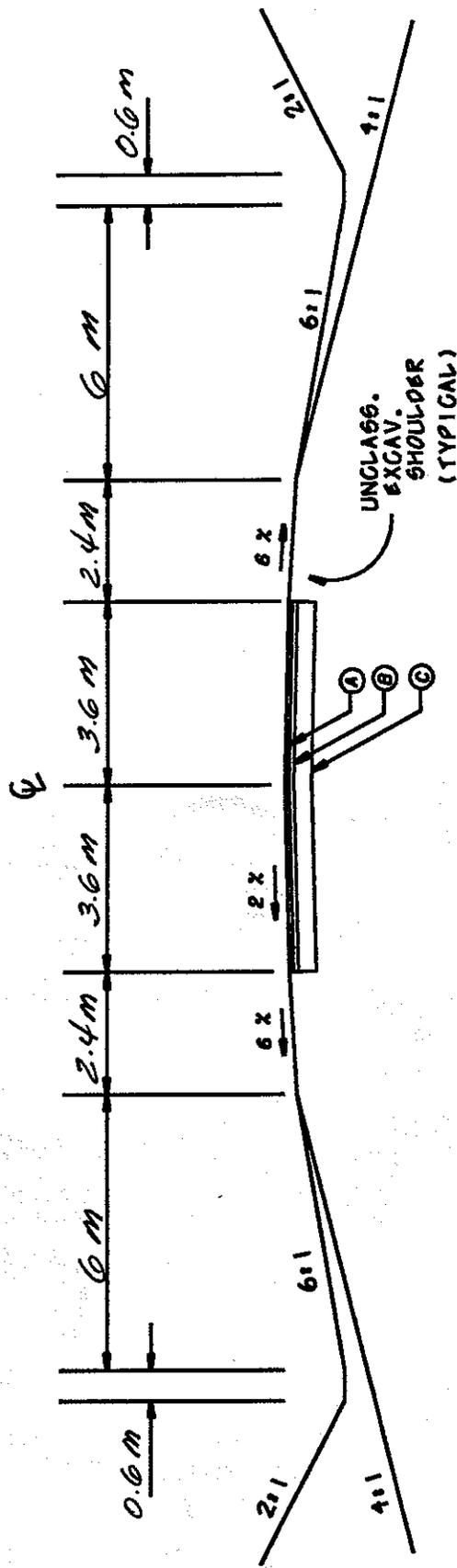
Date

State Bridge & Structural Design Engineer



# TYPICAL SECTION

NO SCALE



PROJECT BEN-030-1(15)

COUNTY WEBSTER

P.I.NO. 322600

**A** = 3.81 cm A/C "E"

**B** = 10.61 cm A/C "B"

**C** = 30.48 cm GAB

**P R E L I M I N A R Y   C O S T   E S T I M A T E**

DATE: April 5, 1994

PROJECT NO.: BRN-030-1(15) Webster

P.I. NO.: 322600

PROJECT DESCRIPTION: Replacement of the existing bridge on State Route 27 (US 280) over Choctohatchee Creek including minor approaches and runaround detour. Estimated new structure = 92 m x 12.2 m bridge. Estimated length of project = 0.8 km.

PROPOSED CONCEPT: Br Repl

EXISTING ROADWAY: 7.32 m asph. conc. paving w/1.83 m grass shoulders.

TRAFFIC:        EXISTING    2750    VPD (1999)        DESIGN    4600    VPD (2019)

(   ) PROGRAMMING PROCESS    (xx) CONCEPT DEVELOPMENT    (   ) DURING PROJECT DEVELOPMENT

**PROJECT COSTS**

**A. RIGHT OF WAY**

1. Property (Land and Easements)

\$        15,000.00

2. Displacements

\$

3. Other Costs

\$

SUBTOTAL        \$        15,000.00

B. REIMBURSABLE UTILITIES

1. Railroad

\$

2. Transmission Lines

\$

3. Services

\$

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 SUBTOTAL \$ N/A (LGPA)
C. MAJOR STRUCTURES

1. Walls

\$

2. Bridge (Stream Crossing)

92 m x 12.2 m bridge

\$ 580,500.00

3. Bridge (Over/Underpass)

\$

4. Box/Bridge Culvert

\$

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 SUBTOTAL \$ 580,500.00
D. GRADING AND DRAINAGE

1. Earthwork

12,000 cubic meters @ \$ 7.00

\$ 84,000.00

2. Drainage

a. Cross Drain Pipes (excl. box clvts)

\$

b. Curb and Gutter

\$

c. Longitudinal System (incl. CB's)

\$

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 SUBTOTAL \$ 84,000.00

E. BASE AND PAVING

## 1. Aggregate Base

4400 tons @ \$ 17.00 \$ 74,800.00

## 2. Asphalt Paving

2000 tons @ \$ 42.00 \$ 84,000.00

## 3. Concrete Paving

## 4. Other

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 SUBTOTAL \$ 158,800.00
F. LUMP ITEMS

## 1. Traffic Control

\$ 20,000.00

## 2. Clearing and Grubbing

4 hectares @ \$ 7500.00 \$ 30,000.00

## 3. Landscaping

## 4. Erosion Control

## 5. Detours (incl. Temp. Bridges)

(est. length = 0.8 km with 60 m bridge) \$ 187,300.00

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 SUBTOTAL \$ 237,300.00
G. MISCELLANEOUS

## 1. Lighting

## 2. Signing/Striping

## 3. Guardrail

120 m @ \$ 60.00 \$ 7,200.00

## 4. Other

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 SUBTOTAL \$ 7,200.00

ESTIMATE SUMMARY

A. RIGHT OF WAY	\$	15,000.00
B. REIMBURSABLE UTILITIES	\$	N/A (LGPA)

CONSTRUCTION COST SUMMARY

C. MAJOR STRUCTURES	\$	580,500.00
D. GRADING AND DRAINAGE	\$	84,000.00
E. BASE AND PAVING	\$	158,800.00
F. LUMP ITEMS	\$	237,300.00
G. MISCELLANEOUS	\$	7,200.00
SUBTOTAL CONSTRUCTION COST	\$	1,067,300.00
E & C (10%)	\$	106,780.00
INFLATION (5% per year X 3 yrs.)	\$	160,170.00
TOTAL CONSTRUCTION COST	\$	1,334,750.00

GRAND TOTAL PROJECT COST \$ 1,349,750.00

This GRAND TOTAL PROJECT COST represents:

\$ 1,349,750.00 within Congressional District 2.

**PROJECT CONCEPT REPORT**

**PROJECT NO.:** BRN-030-1(15)

**COUNTY:** Webster

**PREVIOUS PROJECT NO.:** None

**ROUTE NO.:** SR 27; US 280;  
F 30-1

**LOCATION:** State Route 27 (US 280) over Choctohatchee Creek east of  
Preston.

**TRAFFIC:** CURRENT ADT 2750 VPD (1999) PROJECTED ADT 4600 VPD (2019)

**EXISTING TYPICAL SECTION:** 7.32 m asphaltic concrete paving with 1.83 m  
grass shoulders (rural section).

**EXISTING MAJOR STRUCTURES:** 73.15 m x 7.71 m bridge with timber piles,  
steel beams, and concrete deck.  
(Str. # 307-0007-0)

**EXISTING RIGHT OF WAY:** 30.48 m total (est).

**STATEMENT OF NEED & PURPOSE OF PROJECT:**

The purpose of this project is to replace an existing narrow and structurally deficient bridge and thereby improve the operational safety of the route. This bridge has a Sufficiency Rating of 41.7.

**PROJECT CONCEPT:**

**LENGTH:** 0.8 km (est).

**BEGINNING:** Approx. 0.4 km west of Choctohatchee Creek.

**ENDING:** Approx. 0.4 km east of Choctohatchee Creek.

**PDP CLASSIFICATION:** Minor NON-CA ( ) CA ( ) EXEMPT (xx)

**FUNCTIONAL CLASSIFICATION:** Rural Principal Arterial

	<u>EXISTING</u>	<u>PROPOSED</u>	<u>ALLOWABLE</u>
<b>MAX. DEG. OF CURVE:</b>	Tang.	Tang.	4.75
<b>MAX. GRADE:</b>	3.2 %	4 %	4.5 %
<b>POSTED SPEED:</b>	55 mph	<b>DESIGN SPEED:</b>	90 kph
<b>PROPOSED TYPICAL SECTION:</b>	Two (2) 3.6 m paved travel lanes with 2.4 m grass shoulders (rural section).		

**MAJOR STRUCTURES:** 92.0 m x ~~12.2~~ <sup>13.4 m</sup> m bridge (est). *mu 4/13/54*

**REQUIRED RIGHT OF WAY:** Additional 3 m each side plus temporary easement for construction of runaround detour.

**DISPLACEMENTS:** BUSINESSES - None RESIDENCES - None

**TYPE ACCESS:** Controlled by permit

**TRAFFIC CONTROL DURING CONSTRUCTION:** Traffic will be maintained through construction utilizing an on-site runaround detour.

**ESTIMATED COST:** R/W \$ 15,000.00  
CONST. \$ 1,334,750.00 TOTAL \$ 1,349,750.00  
UTIL. \$ N/A (LGPA)

**PERMITS REQUIRED:** Nationwide 404 anticipated

**LEVEL OF ENVIRONMENTAL ANALYSIS:** It is anticipated that this project will be considered a Categorical Exclusion.

**POSSIBLE UST SITES:** None **POSSIBLE H/W SITES:** None

**LEVEL OF PUBLIC INVOLVEMENT:** No hearings required.

**TIME SAVING PROCEDURES APPROPRIATE:** YES (xx) NO ( )

**DESIGN EXCEPTIONS REQUIRED:** None anticipated.

**ALTERNATES CONSIDERED:** The only feasible alternates considered were "BUILD" and "NO BUILD". The "BUILD" Alternate was chosen due to the needs and purpose of this project.

**OTHER PROJECTS IN AREA:** None

**CONCEPT TEAM MEETING HELD:** None

**PRESENT:** N/A

**FIELD REVIEW HELD:** Pending

**COMMENTS:**

**DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA**

**PROJECT CONCEPT REPORT**

Bridge Replacement  
State Route 27 (US 280) over Choctohatchee Creek  
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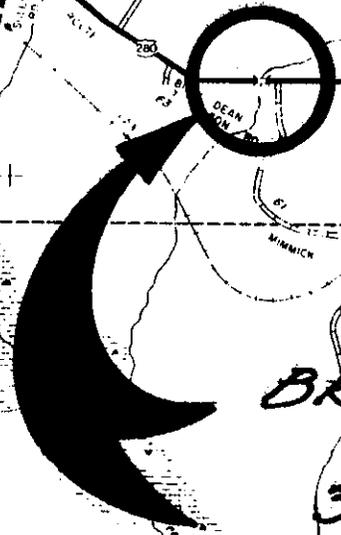
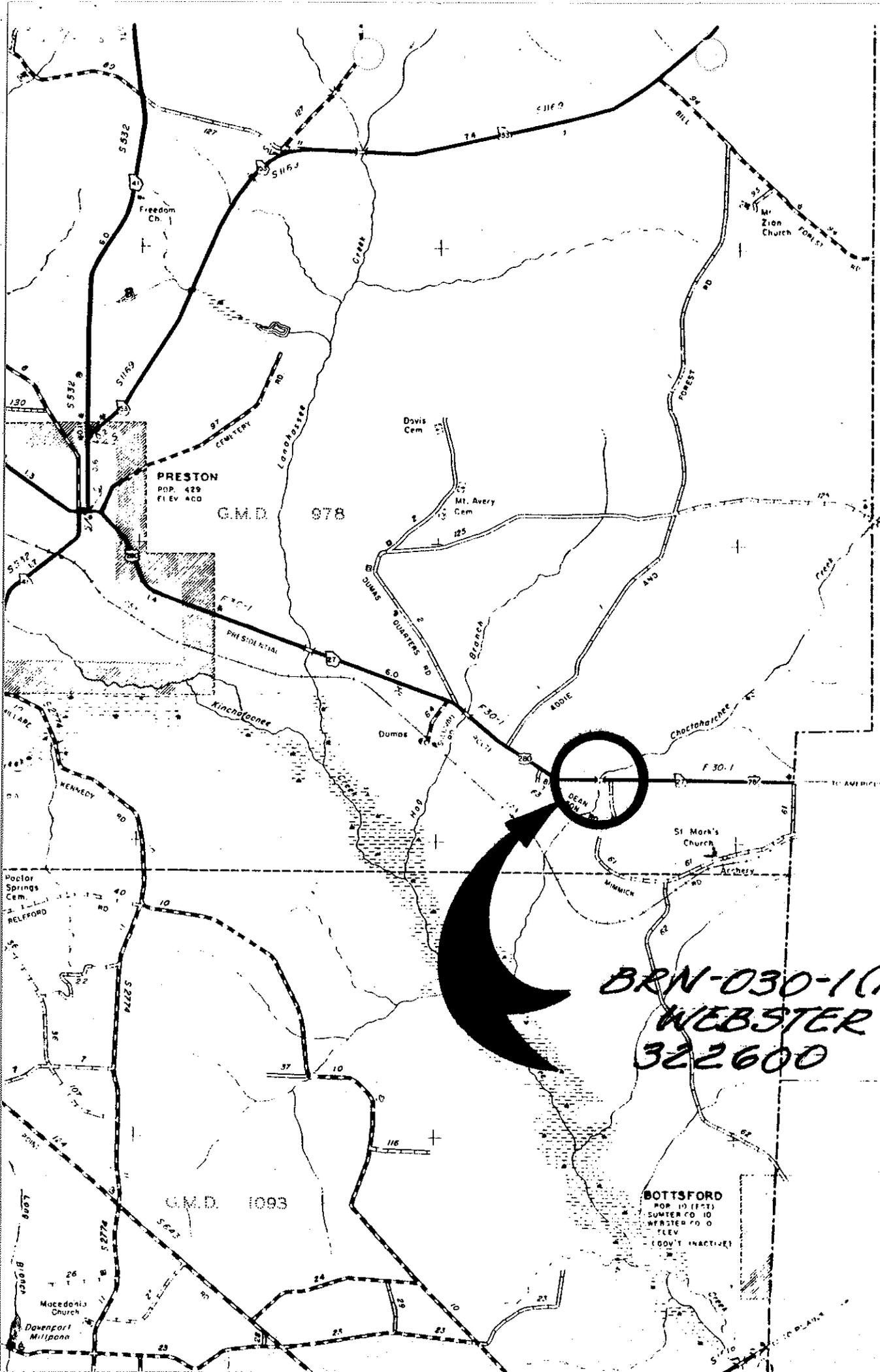
**RECOMMENDATION OF APPROVAL**

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<u>4-7-94</u>	<u>D. V. Ethridge</u>
Date	District Engineer
_____	_____
Date	State Road & Airport Design Engineer
_____	_____
Date	State Environmental Engineer
_____	_____
Date	State Bridge & Structural Design Engineer

C O O U N T Y  
S U M M E R

37° 05'



BRN-030-1(15)  
WEBSTER  
322600

37° 00'