

DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA

## INTERDEPARTMENT CORRESPONDENCE

FILE EDS-545(23) Appling-Toombs Counties OFFICE Preconstruction  
P.I. No. 522220 DATE May 7, 1991

FROM *CWH*  
C. Wayne Hutto, Assistant Director of Preconstruction

TO SEE DISTRIBUTION

SUBJECT PROJECT CONCEPT REPORT APPROVAL - SR 4/US 1 IMPROVEMENTS

Attached for your files is the approval for subject project.

CWH/se

Attachment

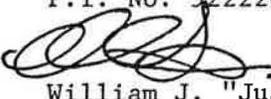
## DISTRIBUTION:

Juan Durrence  
Robert E. Humphrey  
Frank Danchetz  
Herman Griffin  
Walker Scott  
Darrell Elwell  
Winn Guthrie  
Paul Liles  
Ron Colvin  
Craig Brack

# DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA

## INTERDEPARTMENT CORRESPONDENCE

FILE EDS-545(23) Appling-Toombs Counties OFFICE Preconstruction  
 P.I. No. 522220 DATE April 11, 1991

FROM  William J. "Juan" Durrence, Director of Preconstruction

TO Hal Rives, Commissioner

SUBJECT SR 4/US 1 IMPROVEMENTS - PROJECT CONCEPT REPORT

This project is the widening of an 8.16 mile section of SR 4/US 1 to provide a multilane facility from Plant Hatch in Appling County northerly to SR 56 in Toombs County. The existing road has a rural section with 24' of pavement and variable 6'-8' shoulders on variable 100'-200' of right-of-way. Right-of-way is 200' from beginning of project to near Co. Rd. 49 in Toombs County and is 100' from this point to end of project. Major structures within the project limits consist of:

	<u>Site</u>	<u>Structure size</u>	<u>Suff. Rating</u>
1.	Altamaha River	28'x4082'	54.5
2.	Altamaha R. Ovfl	27.8'x290'	53.0
3.	Williams Creek	27.8'x354'	63.0
4.	Cobb Creek	23.8'x420'	48.5
5.	Unnamed Creek	dbl 10'x5' box culvert	82.6

Base year and design year traffic is 6600 VPD (1998) and 9900 VPD (2018).

The proposed project will widen SR 4/US 1 between above termini to have 4-12' lanes (2 each direction) w/44' grassed median on minimum 184' of right-of-way. Inside and outside shoulders will be constructed to 10' with 2' and 4' paved, respectively. Existing bridges at Sites 1 thru 4 are programmed to be widened to 38' under Project BHF-038-1(37). The subject project will construct new 38' wide parallel bridges at each of these sites with approximate lengths of existing bridges and will extend the double 10'x5' culvert to appropriate length. Traffic will be maintained on existing road during construction. Environmental considerations are: (1) displacements of 5 businesses, 1 residence, 2 apartments and 1 church; (2) COE 404 permit - (approx. 5.8 acres of wetlands; (3) 1 known UST site; (4) a public hearing will be held. The estimated cost of the project is:

	<u>PROPOSED</u>	<u>APPROVED</u>	<u>PROG. DATE</u>
Constr(Infl&E/C)	\$20,631,000	\$6,722,000	FY 96
Right-of-way	\$ 1,727,000	No Est.	Preprogram
Utilities	LGPA*	LGPA*	

\*LGPA to be sent after concept approval

Hal Rives  
Page 2  
April 11, 1991

EDS-545(23) Appling-Toombs Counties

I recommend that we approve this project concept report, that the project be removed from Preprogram Status and added to the Construction Work Program for implementation.

The existing bridges at Sites 1, 2 & 3 have 28(±)' wide decks (roadway width) and are structurally sound. It is recommended that these bridges be retained instead of widened as programmed in Project BHF-028-1(37). This would result in a savings of \$1,870,000(±) for the BHF project. It is recommended that these three bridges be deleted from the scope of work for the BHF project.

WJD/WLP/se

Attachment

CONCUR:



G. C. Lewis, State Highway Engineer

APPROVED:



Hal Rives, Commissioner

DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

RECEIVED  
MAR 28 1991

FILE EDS-545 (23) Appling - Toombs Counties  
P.I. No. 522220  
SR 4/US 1 Improvements 8.16 miles

OFFICE Atlanta, Georgia

DATE March 27, 1991

FROM Robert E. Humphrey, Project Review Engineer

REH

TO William J. Durrence, Director of Preconstruction

SUBJECT PROJECT CONCEPT REPORT

We have reviewed the attached Concept Report for this Major project.

We have received signed cover sheets from the following offices.

- 1. Bridge Design
- 2. Traffic and Safety

This report is satisfactory for approval.

The estimated costs of this project are as follows:

Construction	\$15,004,000
Inflation (5% per year) x 5 yrs.	3,751,000
E & C (10%)	1,875,500
Preliminary Engineering (5%)	937,750
Right of Way	1,727,000
Utilities	LGPA Requested

MJB/jmf

Attachments

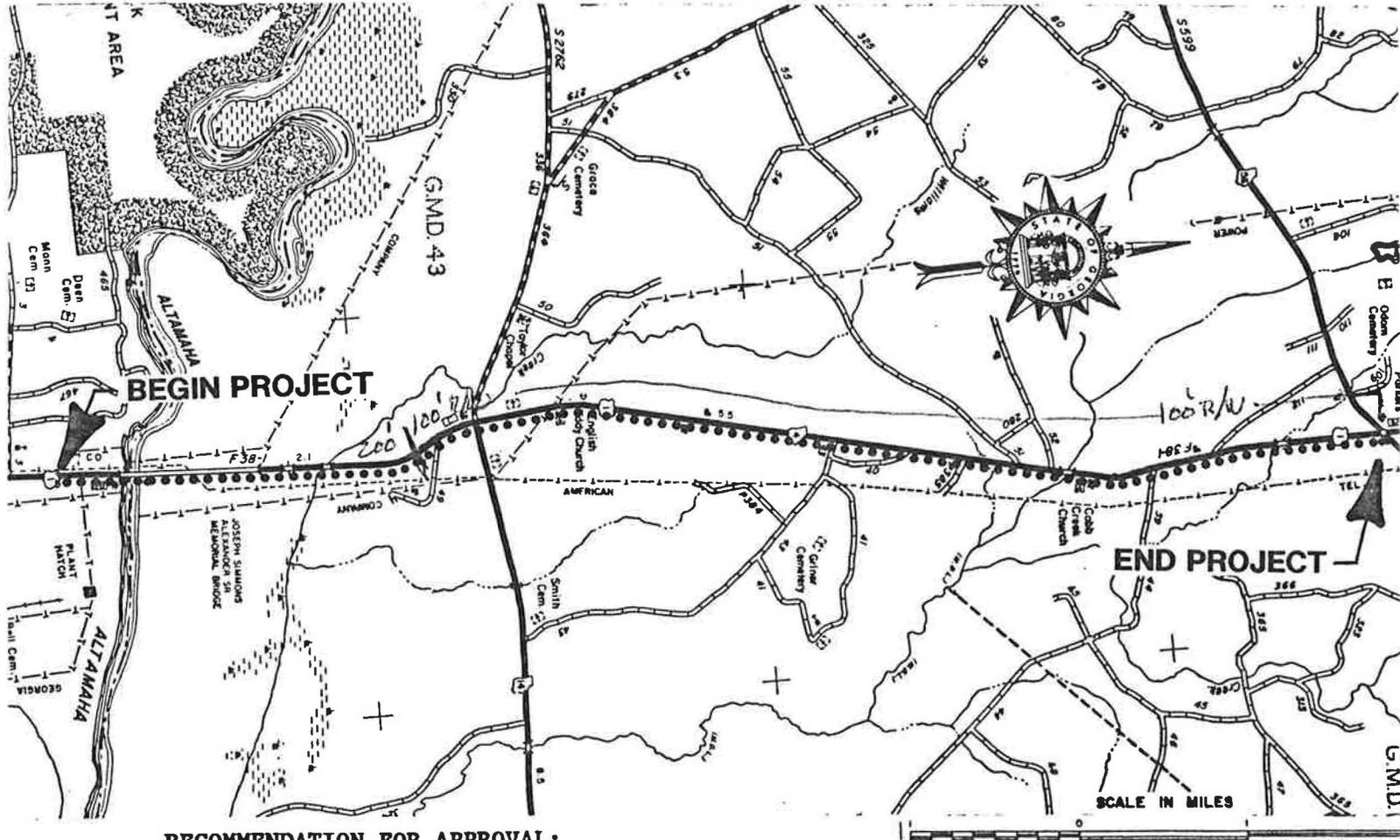
c: Frank Danchetz

OFFICE OF ENVIRONMENT/LOCATION

PROJECT CONCEPT REPORT



Project Number: EDS-545(23)  
County: Appling/Toombs  
P.I. Number: 522220  
Federal Route Number: F 38 - 1  
State Route Number: 04



RECOMMENDATION FOR APPROVAL:

2-25-91  
DATE

Frank R. Pemberton, III  
STATE ENVIRONMENTAL/LOCATION ENGINEER

DATE

STATE ROAD AND AIRPORT DESIGN ENGINEER

DATE

STATE TRAFFIC AND SAFETY ENGINEER

DATE

STATE BRIDGE DESIGN ENGINEER

DATE

DISTRICT ENGINEER/JESUP

DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE



FILE EDS-545(23), Appling/Toombs  
P.I. No. 522220

OFFICE Environment/Location

DATE February 26, 1991

FROM *Frank L. Danchetz*  
Frank L. Danchetz, P.E., State Environmental/Location Engineer

TO Robert Humphrey, Project Review Engineer

SUBJECT Concept Report - U.S. 1/S.R. 4 Improvements: Plant Hatch to S.R. 56

In accordance with the Plan Development Process, the concept report for the above project is attached for your review and processing.

FLD/KET

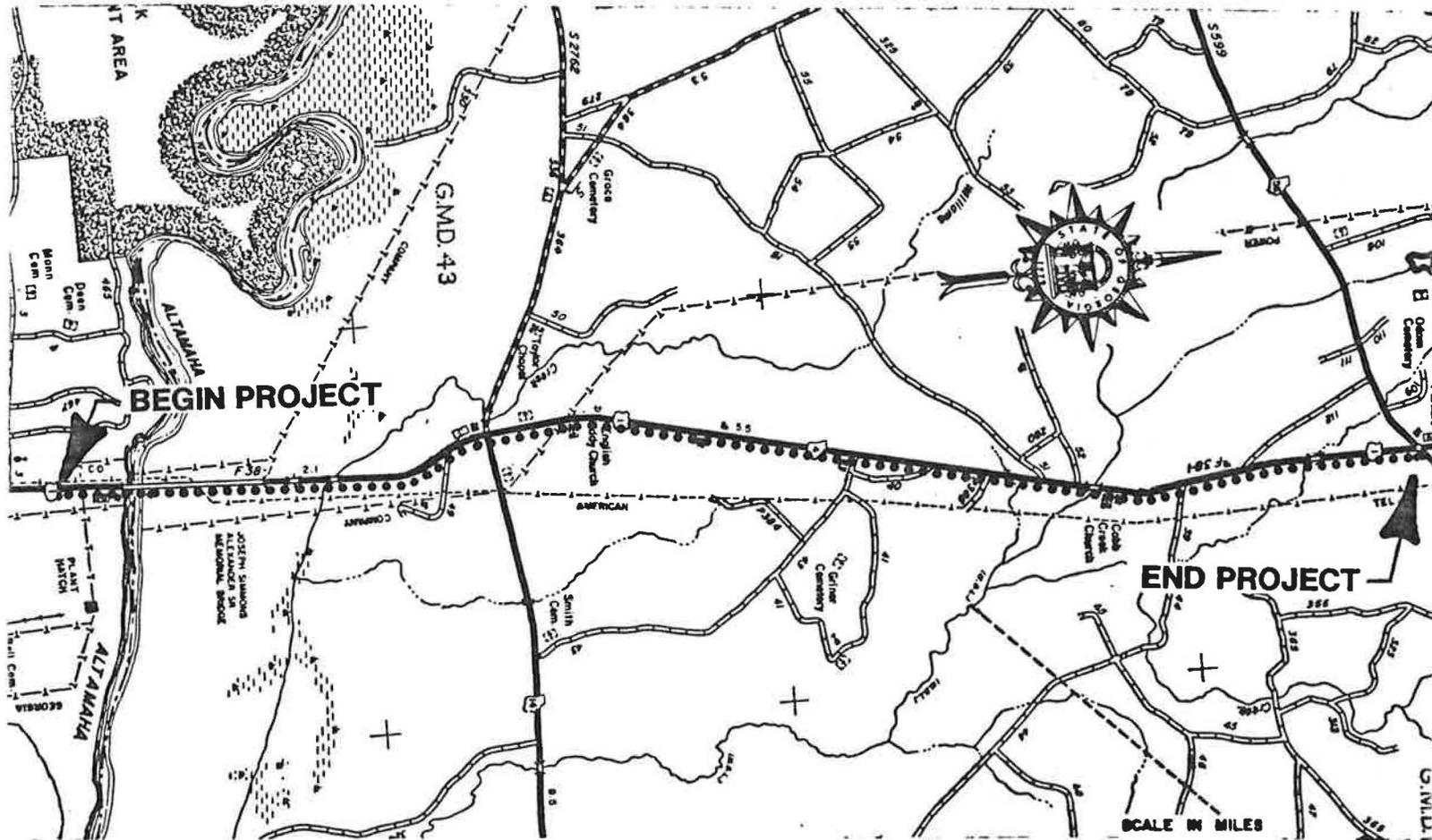
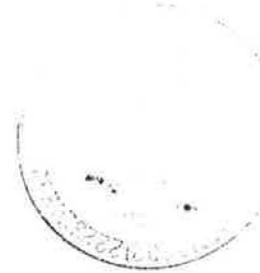
Attachment

cc: C. Wayne Hutto  
Walker Scott  
Ronald Colvin  
Paul Liles  
Craig Brack/Jesup

OFFICE OF ENVIRONMENT/LOCATION

PROJECT CONCEPT REPORT

Project Number: EDS-545(23)  
County: Appling/Toombs  
P.I. Number: 522220  
Federal Route Number: F 38 - 1  
State Route Number: 04



RECOMMENDATION FOR APPROVAL:

2-25-91  
DATE

Frank R. Oambety  
STATE ENVIRONMENTAL/LOCATION ENGINEER

\_\_\_\_\_  
DATE

\_\_\_\_\_  
STATE ROAD AND AIRPORT DESIGN ENGINEER

\_\_\_\_\_  
DATE

\_\_\_\_\_  
STATE TRAFFIC AND SAFETY ENGINEER

3-4-71  
DATE

Paul V. Tiller Jr.  
STATE BRIDGE DESIGN ENGINEER

\_\_\_\_\_  
DATE

\_\_\_\_\_  
DISTRICT ENGINEER/JESUP



DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE



FILE EDS-545 (23)  
Appling/Toombs County  
P.I. No. 522220

OFFICE Atlanta, Ga.

DATE March 1, 1991

FROM *[Signature]* Bob Colvin, P.E., State Traffic & Safety Engineer

TO Robert E. Humphrey, P.E., Project Review Engineer

SUBJECT **Project Concept Report Review**

We have reviewed the concept report on the above project for improvements on U.S. 1/S.R. 4 from Plant Hatch in Appling County to S.R. 56 in Toombs County. Design speed is 55 MPH. Length of Project is 8.16 miles.

The existing two lane roadway would be widened to a four lane facility with a 44 ft. grassed median with shoulder widths to meet current design specifications.

Project improvements provide for safety and operational capacity. Therefore, approval is recommended.

RC:LEO:lw

Attachment (signature page)

cc: Frank Danchetz - State Env./Loc. Eng.; Craig Brack, Dist. Eng. - Jesup

**PROJECT CONCEPT REPORT**

DATE: FEBRUARY 20, 1991

PROJECT NUMBER: EDS-545(23)

COUNTY: APPLING/TOOMBS

PROJECT NAME: U.S. 1 IMPROVEMENTS

P.I. NUMBER: 522220 U.S. ROUTE NO: 001 STATE ROUTE NO: 04

LOCATION

FROM PLANT HATCH IN APPLING COUNTY TO SR 56 IN TOOMBS COUNTY.

LENGTH = 8.16 MILES

TRAFFIC

<u>CURRENT</u>		<u>PROJECTED</u>	
<u>YEAR</u>	<u>AADT</u>	<u>YEAR</u>	<u>AADT</u>
1998	6600	2018	9900

PDP CLASSIFICATION

FUNCTIONAL CLASSIFICATION

MAJOR; CONSTRUCTION ALONG EXISTING ROADWAY

RURAL ARTERIAL

EXISTING TYPICAL SECTION

2 LANES W/OPEN DITCH DRAINAGE AND VARIABLE 6' - 8' GRASSED SHOULDERS ON R/W THAT VARIES FROM 100 FT. TO 200 FT.

POSTED SPEED

55 MPH

MAX EXIST DEGREE OF CURVE

4°00'

MAX EXIST GRADE

3.69%

EXISTING MAJOR STRUCTURES

<u>P. RTG.</u>	<u>S. RTG</u>	<u>FEATURES INTERSECTED</u>	<u>LENGTH</u>	<u>DECK WIDTH</u>
1026	54.5	ALTAMAHA RIVER	4082.0'	<del>33.4</del> (25' Rdwy)
619	53.0	ALTAMAHA RIVER OVERFLOW	290.0'	34.0' (27.8' Rdwy)
715	63.0	WILLIAMS CREEK	354.0'	34.0' (27.8' Rdwy)
706	<del>63.3</del> 48.5	COBB CREEK	420.0'	30.0' (23.8' Rdwy)
0	82.6	BRANCH OF OPEN CREEK	21.0'	DOUBLE 10' * 5'

PROJECT CONCEPT REPORT

PROJECT NUMBER: EDS-545(23), APPLING/TOOMBS

PROJECT NEED: U.S. 1/S.R. 4 IS THE MAJOR NORTH-SOUTH CORRIDOR IN MID-EAST GEORGIA AND IS PART OF THE GOVERNOR'S ROAD IMPROVEMENT PROGRAM. THE PROPOSED MULTI-LANING OF U.S. 1 WOULD ELIMINATE CONGESTION AND ENHANCE THE TRAFFIC FLOW, WHILE IMPROVING THE OPERATIONAL CHARACTERISTICS AND SAFETY ALONG U.S. 1.

PROPOSED TYPICAL SECTION

(1) 4 LANES WITH A 44 FT. GRASSED MEDIAN AND OPEN DITCH DRAINAGE ON 184 FT. MINIMUM R/W.

DESIGN SPEED  
55 MPH

MAX CURVE  
ALLOWABLE: 5° 15'  
PROPOSED: 4° 00'

MAX GRADE  
ALLOWABLE: 4.5%  
PROPOSED: 3.69%

MAJOR STRUCTURES: (1) CONSTRUCT A NEW PARALLEL, 2 LANE BRIDGE OVER THE ALTAMAHA RIVER. (2) CONSTRUCT A NEW PARALLEL, 2 LANE BRIDGE OVER THE ALTAMAHA RIVER OVERFLOW. (3) CONSTRUCT A NEW PARALLEL, 2 LANE BRIDGE OVER WILLIAMS CREEK. (4) CONSTRUCT A NEW PARALLEL, 2 LANE BRIDGE OVER COBB CREEK. (5) EXTEND THE EXISTING BRIDGE CULVERT AT THE BRANCH OF OPEN CREEK. (SEE COMMENTS ON PAGE 3)

TYPE ACCESS: BY PERMIT ALONG EXISTING ROADWAY

TRAFFIC CONTROL DURING CONSTRUCTION: TRAFFIC WOULD BE MAINTAINED ON EXISTING ROADS.

ESTIMATED COST:

CONSTRUCTION: \$ 15,004,000

RIGHT-OF-WAY: \$ 1,727,000

E&C (10%): 1,500,000

ACQUIRED BY: GA D.O.T.

INFLATION: 1,692,000

UTILITIES: LGPA TO BE REQUESTED

2 YEARS AT 5% PER YEAR

ADJUSTED BY: NOT KNOWN AT THIS TIME

TOTAL CONST. COST: \$ 18,196,000

DISPLACEMENTS: 5-BUSINESSES, 1-RESIDENCE, 2-APARTMENTS, 1-CHURCH

PROJECT CONCEPT REPORT

PROJECT NUMBER: EDS-545(23), APPLING/TOOMBS

LEVEL OF ENVIRONMENTAL ANALYSIS: N/A - STATE AID.

LEVEL OF PUBLIC INVOLVEMENT: PUBLIC HEARING

TIME SAVING PROCEDURES APPROPRIATE: NO

DESIGN VARIATIONS REQUIRED: NONE REQUESTED AT THIS TIME

OTHER PROJECTS IN AREA: EDS-545(24)(25)&(26)TOOMBS COUNTY

CONCEPT TEAM MEETING DATE: FEBRUARY 8, 1991

LOCATION INSPECTION DATE: NOT SCHEDULED

PERMITS REQUIRED (4f, COE, 404, etc.): COE 404; APPROX. 5.8 ACRES OF WETLANDS

UNDERGROUND STORAGE TANKS: THERE IS 1 KNOWN U.S.T. SITE LOCATED ALONG THIS PROJECT;

U.S.T. RESEARCH ASSISTANCE WAS REQUESTED FROM THE DISTRICT OFFICE ON FEBRUARY 20, 1991.

HAZARDOUS WASTE SITES: NONE KNOWN AT THIS TIME

OTHER ALTERNATES CONSIDERED: NONE

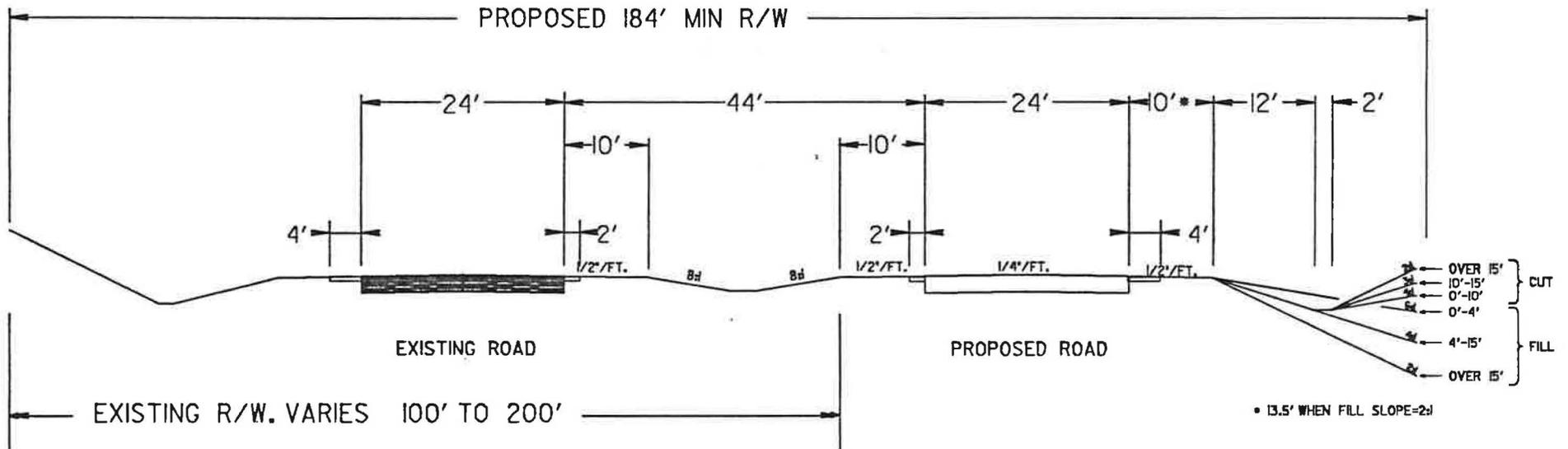
COMMENTS: THE EXISTING BRIDGES ALONG THIS PROJECT ARE PROPOSED TO BE WIDENED WITH FEDERAL FUNDS UNDER PROJECT BHF-038-1(37), APPLING/TOOMBS COUNTIES. THE CONSTRUCTION COST FOR THAT PROJECT WOULD BE \$2,543,000. THIS COST INCLUDES E/C AND INFLATION FOR TWO YEARS.

FOR A DETAILED PROJECT DESCRIPTION, SEE ATTACHED CONCEPT TEAM MEETING MINUTES.

ATTACHMENTS: TYPICAL SECTION

COST ESTIMATE

CONCEPT TEAM MEETING MINUTES



EDS-545(23), APPLING / TOOMBS COUNTIES  
 TYPICAL CROSS SECTION  
 US-1 IMPROVEMENTS

**DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA**

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**INTERDEPARTMENT CORRESPONDENCE**

FILE EDS-545(23)(24)&(25) and BHF-038-1(36)&(37) OFFICE Environment/Location  
Appling/Toombs; P.I. Nos. 522220, 522180  
522190 and 522185, 522225 DATE February 12, 1991

FROM <sup>KEY</sup> Kenneth E. Thompson, T.E. II

TO Distribution Below

**CONCEPT TEAM MEETING MINUTES - U.S. 1/S.R. 4 Improvements**

SUBJECT A concept team meeting for the proposed U.S. 1 improvement project, from Plant Hatch in Appling County to the city of Lyons in Toombs County, was held February 8, 1991 at the aerial lab conference room. Those in attendance were as follows: Charles Rosebrough, County Engineer of Appling County; Alvin Hitchcock, Roy L. Williams, and Mell Taylor, Toombs County Commissioners; Joseph P. Conway and Floyd Moore of F.H.W.A.; Walker Scott, Roland Hinners, Mike Reynolds, and Jim Graybeal of Road Design; Del Clippard, Traffic & Safety; Frank Golder and Herman T. Griffin, Programming; Melvin Collins, Material & Research; Lori Spiegel, Right-of-Way; Frank Sweat, Jesup District Office; David Studstill, Jerry Hobbs, Fred Matheny, Bascombe Hughes and myself of Environment/Location.

Projects EDS-545(23),(24)&(25), Appling/Toombs Counties are proposed to improve U.S. 1/S.R. 4 from Plant Hatch to the south city limits of Lyons. From the beginning of the project to a point on U.S. 1, approximately 0.3 mile south of the town of Santa Claus, U.S. 1 would be widened on the east side to have four lanes with a 44 ft. grassed median and open ditch drainage on 184 ft. minimum R/W. At that point, the proposed median would taper down and U.S. 1 would be widened on the east side to have four lanes with a 14 ft. flush median and open ditch drainage on 144 ft. minimum R/W. Just south of C.R. 265, the proposed widening would transition from east side to symmetrical widening and continue to the end of the project. The proposed speed design would be 55 MPH, and access would be by permit for the 18.43 mile cumulative length of the projects.

Projects BHF-038-1(36)&(37), Appling/Toombs Counties are proposed to improve the existing bridges along U.S. 1/S.R. 4, from Plant Hatch to Lyons, in coordination with the above mentioned "EDS" projects. The existing bridges over the Altamaha River, Willaims Creek, Cobb Creek, Rocky Creek, and Little Rocky Creek all have sufficiency ratings that range from 53.0 to 63.3 and are planned to be widened because of their substandard deck widths.

The projects were reviewed in their entireties and the following comments and recommendations were made:

Local Officials

- A. How many businesses would there be displaced by the proposed improvements?
  - 1. There would be nine businesses displaced.

(Cont'd)

- B. What is the time table for the construction of the proposed projects?
  - 1. The Department's preconstruction process was explained to the local officials, and they were told that the projects are currently in the preprogramming stage of the process.
- C. Has there been any right-of-way purchased for these projects?
  - 1. Not at this time.
- D. The school at the U.S. 1/S.R. 56 intersection will not be closed, as it was presumed earlier.
- E. The local officials will contact members of English Eddy Church, and let us know if there might be a problem if the church is displaced.
- F. The local officials were concerned with the relocation of roads at the S.R. 29/S.R. 15 intersection with U.S. 1.
  - 1. There should not be any displacements associated with the improvements to the intersection.
- G. The ponds, on the east side of U.S. 1, that would be displaced by the proposed improvements are not irrigation ponds and should not be a problem.
- H. The air conditioned barn, on the west side of U.S. 1, in the town of Santa Claus used to be a dance hall, but it is currently being used to store hay.
- I. The local officials all agreed that the proposed improvements are worthwhile, and that they are glad to see them on the horizon.

#### Road Design

- A. Why was the proposed typical section reduced at the north end of the proposed improvements?
  - 1. The proposed typical section was reduced to minimize displacements in the town of Santa Claus, and to match the proposed typical section of project EDS-545(26), Toombs County, which has an approved concept and begins at the south city limits of Lyons, approximately one mile north of Santa Claus.
- B. What is the projected traffic for the five lane section?
  - 1. The projected traffic for the five lane section is 5550 ADT in yr. 1998 and 8300 ADT in yr. 2018.
- B. Due to number of side road relocations necessary at the U.S. 1/S.R. 29 intersection, the improvements for that intersection will be looked at in more detail when the project reaches the design phase.

(Cont'd)

- C. S.R. 56 needs to be realigned to improve it's angle of intersection with U.S. 1.

#### Traffic & Safety

- A. What is the proposed intersection configuration for U.S. 1 and the driveway into Plant Hatch?
  - 1. In the southbound direction, there would be two thru lanes and a separate left turn lane for vehicles going into Plant Hatch. In the northbound direction, there would be two thru lanes and a separate right turn lane for vehicles going into Plant Hatch. There would also be a northbound acceleration lane on U.S. 1 for vehicles coming out of Plant Hatch.

#### Materials & Research

- A. How many U.S.T.'s would there be impacted by the proposed improvements?  
There are three sites known at this time.

#### Jesup District

- A. The district office will research the proposed projects for U.S.T. sites. It looks like there may be more U.S.T. sites that have not yet been identified.
- B. English Eddy church, the one church that would be displaced by the proposed improvements, should be checked for historical significance.

#### F.H.W.A.

- A. F.H.W.A. would participate in the construction of the new parallel bridges in addition to the widening of the existing bridges along U.S. 1, if it is warranted by the projected traffic capacity of U.S. 1.

#### Schedule

- A. A public hearing for the projects could be scheduled for mid-April 1991.

Distribution: Juan Durrence, Kirby Hamil, Gene Skeen, Walker Scott, Paul Liles, Ronald Colvin, Robert Humphrey, Dudley Ellis, Don Welch, Craig Brack/Jesup, Peter Malphurs/Attention: Melvin Collins, Wink Kirk, Toni Dunagan

PRELIMINARY COST ESTIMATE

DATE FEBRUARY 14, 1991

PROJECT NO. EDS-545(23)APP./TOOMBS

P.I. NO. 52220

PROJECT DESCRIPTION U.S. 1 IMPROVEMENTS : FROM PLANT HATCH TO S.R. 56.

WIDEN & RETAIN EXISTING LANES - 7.75 MILES

WIDEN & RECONSTRUCT EXIST. LANES - 0.41 MILES

TOTAL LENGTH - 8.16 MILES

PROPOSED CONCEPT 4 LANES W/44 FT. GRASSED MEDIAN

EXISTING ROADWAY (IF APPLICABLE) 2 LANES WITH OPEN DITCHES

TRAFFIC: EXISTING 6600 ADT @ YR. 1998 DESIGN 9900 ADT @ YR. 2018

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

**PROJECT COSTS**

**A. RIGHT OF WAY**

1. PROPERTY (LAND AND EASEMENTS)	\$	<u>235,000</u>
2. DISPLACEMENTS	\$	<u>848,000</u>
5 - BUSINESSES; 1 - RESIDENCES; 2 - APARTMENTS; 1 - CHURCH		
3. OTHER COSTS	\$	<u>644,000</u>
SUBTOTAL	\$	<u>1,727,000</u>

**B. REIMBURSABLE UTILITIES**

1. RAILROAD	\$	<u>          </u>
2. TRANSMISSION LINES	\$	<u>          </u>
3. SERVICES	\$	<u>          </u>
SUBTOTAL	\$	<u>LGPA TO BE REQUESTED</u>

**C. MAJOR STRUCTURES**

1. WALLS	\$	<u>          </u>
2. BRIDGE STREAM CROSSINGS	\$	<u>8,720,000</u>
4 NEW BRIDGES		
3. BRIDGE OVER/UNDERPASS	\$	<u>          </u>
4. BOX CULVERTS	\$	<u>94,000</u>
EXTEND 2 CULVERTS		
SUBTOTAL	\$	<u>8,814,000</u>

<b>D. GRADING AND DRAINAGE</b>		
1. EARTHWORK		\$ 670,000
335,000 CY U.E.;		
2. DRAINAGE		
a. CROSS DRAIN PIPES (EXCL. BOX CULVERTS)		\$
THIS ITEM IS INCLUDED IN LONGITUDINAL SYSTEM		
b. CURB AND GUTTER		\$
c. LONGITUDINAL SYSTEM (INCL. CATCH BASINS)		\$ 344,000
	<b>SUBTOTAL</b>	<b>\$ 1,014,000</b>
<b>E. BASE AND PAVING</b>		
1. AGGREGATE BASE		\$ 803,000
73,333 T - 10.00 IN.		
2. ASPHALT PAVING		\$ 1,565,000
53,013 T-1.50 IN. "E"; 2.00 IN. "B"; 3.00 IN. ASPHALTIC CONCRETE BASE		
3. CONCRETE PAVING		\$
4. OTHER		\$ 1,017,000
INCLUDES PAVED SHOULDERS		
	<b>SUBTOTAL</b>	<b>\$ 3,385,000</b>
<b>F. LUMP ITEMS</b>		
1. TRAFFIC CONTROL		\$ 152,000
2. CLEARING AND GRUBBING		\$ 489,000
104 ACRES		
3. LANDSCAPING		\$ 161,000
4. EROSION CONTROL		\$ 206,000
5. DETOURS (INCL. TEMP. BRIDGES)		\$
	<b>SUBTOTAL</b>	<b>\$ 1,008,000</b>
<b>G. MISCELLANEOUS</b>		
1. LIGHTING		\$
2. SIGNING - STRIPING		\$ 248,000
3. GUARDRAIL		\$
4. OTHER		\$ 338,000
	<b>SUBTOTAL</b>	<b>\$ 586,000</b>
<b>H. SPECIAL FEATURES</b>		
1600 FT. OF RELOCATED CROSSROADS		\$ 197,000

ESTIMATE SUMMARY

A. RIGHT OF WAY	\$	<u>1,727,000</u>	
B. REIMBURSABLE UTILITIES	\$	<u>                    </u>	(LGPA TO BE REQUESTED)

CONSTRUCTION COST SUMMARY

C. MAJOR STRUCTURES	\$	<u>8,814,000</u>	
D. GRADING AND DRAINAGE	\$	<u>1,014,000</u>	
E. BASE AND PAVING	\$	<u>3,385,000</u>	
F. LUMP ITEMS	\$	<u>1,008,000</u>	
G. MISCELLANEOUS	\$	<u>586,000</u>	
H. SPECIAL FEATURES	\$	<u>197,000</u>	

SUBTOTAL CONSTRUCTION COST	\$	<u>15,004,000</u>	
E & C (10%)	\$	<u>1,500,000</u>	
INFLATION (5% PER YEAR)	\$	<u>1,692,000</u>	(2 YEARS)
TOTAL CONSTRUCTION COST	\$	<u>18,196,000</u>	

<b>GRAND TOTAL PROJECT COST</b>	\$	<u>19,923,000</u>
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