ORIGINAL TO GENERAL FILES

D.O.T. 66

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE EDS-545(30) Jefferson County
P. I. No. 222150

OFFICE Preconstruction

DATE October 12, 2001

FROM C. Wayne Hutto, Assistant Director of Preconstruction

TO SEE DISTRIBUTION

SUBJECT **REVISED PROJECT CONCEPT REPORT APPROVAL**

Attached for your files is the approval for subject project.

CWH/cj

Attachment

DISTRIBUTION:

Tom Turner
David Mulling
Harvey Keepler
Jerry Hobbs
Herman Griffin
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BOARD MEMBER

ORIGINAL TO GENERAL FILES

D.O.T. 66

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE EDS-545(30) Jefferson County
P. I. No. 222150

OFFICE Preconstruction

DATE October 10, 2001

FROM C. Wayne Hutto, Assistant Director of Preconstruction

TO SEE DISTRIBUTION

SUBJECT REVISED **PROJECT CONCEPT REPORT APPROVAL**

Attached for your files is the approval for subject project.

CWH/cj

Attachment

DISTRIBUTION:

Tom Turner
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BOARD MEMBER

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENTAL CORRESPONDENCE

FILE EDS-545(30), Jefferson County
PI # 222150

OFFICE Environment/Location

DATE September 18, 2001

HDK/KET

FROM Harvey D. Keepler, State Environmental/Location Engineer

TO C. Wayne Hutto, Assistant Director of Preconstruction

SUBJECT **Revised Project Concept Report – US 1/SR 4 Improvements**

SEP 26 2001

Attached is the original copy of the revised Concept Report for your further handling for approval in accordance with the Plan Development Process (PDP).

For EDS-545(30), the proposed changes to the approved concept would be a revision to the typical section and to the concept alignment. To comply with current Department guidelines, the typical section would change from a 4 lane with a 20 foot raised median to a 4 lane with a 14 foot flush median for the entire length of the project. The alignment would change from east side widening to symmetrical widening from the project beginning to US 1/SR 4 Business north of downtown Louisville.

The revised concept as presented herein and submitted for approval is consistent with that which is included in the State Transportation Improvement Program (STIP).

DATE 9-25-01

Marta V. Rosen
State Transportation Planning Administrator

Distribution:

David Mulling
Philip Allen
Marta Rosen
Herman Griffin
Jim Chambers
Mike Thomas

REVISED PROJECT CONCEPT REPORT

Need and Purpose: US 1/SR 4 is the major north-south corridor in mid-east Georgia. The proposed projects, EDS-545(29),(30),(31) & (32) would widen and reconstruct US 1/SR 4 from the Wadley Bypass to SR 88 in Wrens. The existing roadway is reaching capacity and improvements would be required to maintain an acceptable level of service. Improvements would also eliminate congestion, enhance the traffic flow, and increase capacity while improving the operational characteristics and the safety along US 1/SR 4.

The US 1/SR 4 Improvements are part of the Governor's Road Improvement Program (G.R.I.P.). G.R.I.P. was initiated in the 1980's to address the importance of stimulating economic growth via an improved transportation network. It identified a system of economic development highways that consist of existing primary routes, plus additional truck connector routes. The system would place 98 percent of the state's population within 20 miles of a multi-lane highway. It would provide access for oversized trucks to cities having populations between 2,000 people and 5,000 people. Among the many benefits of such a system, areas lagging in growth would be provided greater opportunities to attract industry, business and jobs.

Project Location: The proposed concept would be located along US 1/SR 4 and would begin at milepost 11.90 and end at milepost 14.44 in Jefferson County. The total length of the project would be approximately 2.5 miles.

Description of the approved concept: The approved concept for EDS-545(30) in Jefferson County is proposed to widen and reconstruct the Louisville Bypass; US 1/SR 4 from US 1/SR 4 Business to CR 325/Old US 1 in Jefferson County. From the beginning of the project south of Louisville at US 1/SR 4 Business, US 1/SR 4 would be widened on the east side to have four lanes with a 20 ft raised median and curb & gutter. The widening would continue on the east side to the end of the project at CR 325/Old US 1. Existing right-of-way width along the project is 130 feet. The proposed right-of-way would vary from 138 feet to 250 feet for the length of the project. The speed design would be 45 mph, and access would be by permit.

PDP Classification: **Major**____X_____ **Minor**_____

Federal Oversight: Full Oversight ( ), Exempt (X), SF ( ), Other ( )

Functional Classification: Rural Principal Arterial

U. S. Route Number(s): 1 **State Route Number(s):** 4

Traffic (AADT) as shown in the approved concept:

Current Traffic		Design Traffic	
Year: 1997	ADT: 6200 – 12,000	Year: 2017	ADT: 9700 – 19,100

Proposed Features to be revised:
EDS-545(30)

1. The median is recommended for revision.
2. The alignment is recommended for revision.

Revised feature(s) to be approved:
EDS-545(30)

1. To comply with current DOT guidelines, the typical section is recommended for revision. The approved 4 lane with 20 foot raised median typical section would be changed to a 4 lane with 14 foot flush median typical section.
2. Because of the change in typical section, no additional right-of-way would be required if the alignment were to shift to symmetrical widening. Therefore, widening would be changed from east side widening to symmetrical widening. This change would take effect from the beginning of the project south of Louisville at the relocated US 1/SR 4 Business, to US 1/SR 4 Business north of downtown Louisville. North of US 1/SR 4 Business, the alignment would transition to east side widening and continue as discussed in the approved concept to the end of the project. Proposed right-of-way would coincide with the existing right-of-way, and vary from 130 feet to 200 feet.

Updated traffic data (AADT):

Current Traffic		Design Traffic	
Year: 2010	AADT: 15,500	Year: 2030	AADT: 24,500

Programmed/Schedule:
EDS-545(30)

P.E. FY 2002 R/W FY 2005 Construction FY 2007

Revised Cost Estimates:
EDS-545(30)

Construction cost including inflation and E&C:	$ 4,895,000
Right-of-way:	$ 118,700
Utilities:	$ 203,000

Is the project located in a Non-attainment area? _____**Yes** ___X___**No**

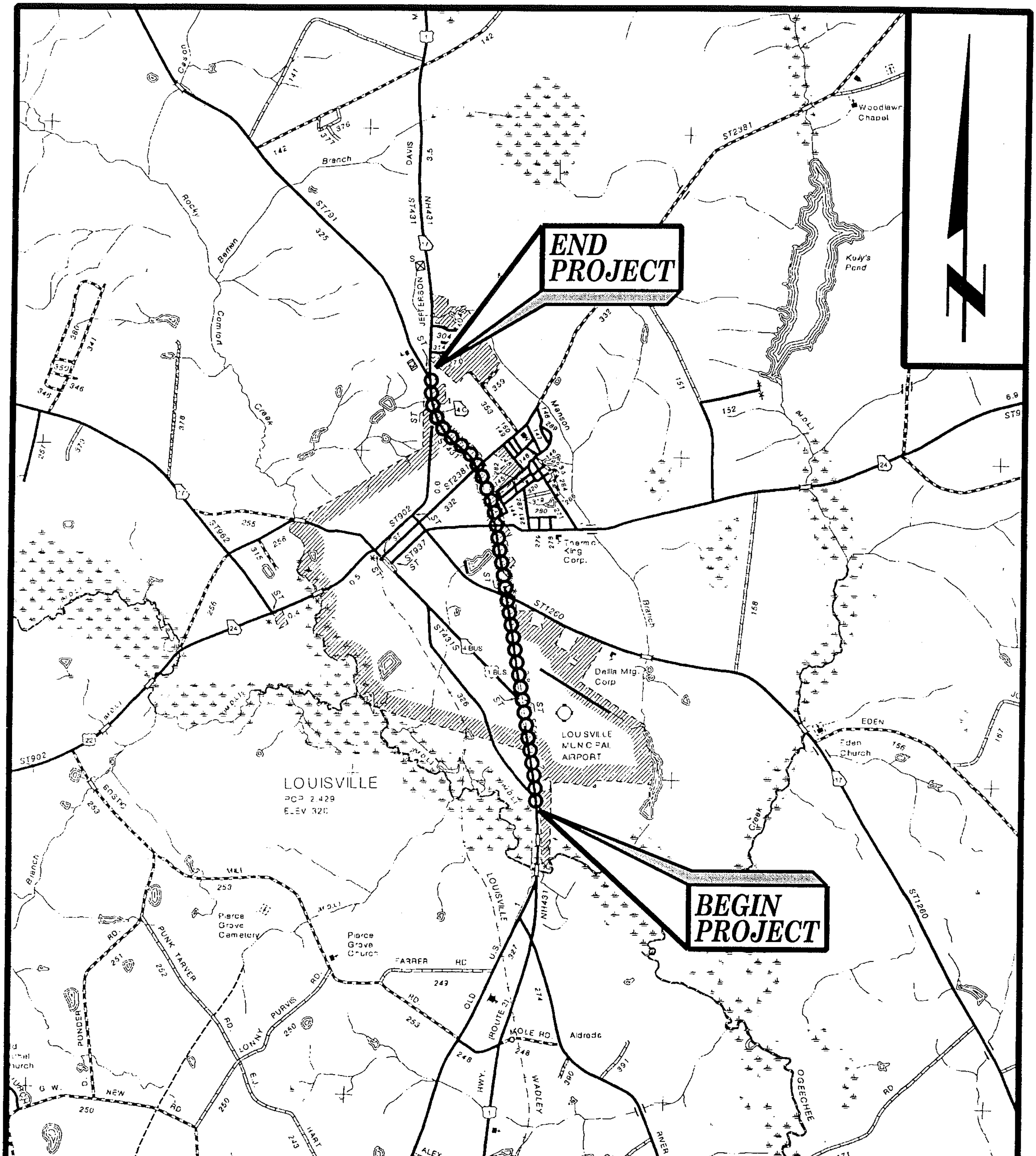
Recommendation: It is recommended that the proposed revisions to this concept be approved for implementation.

HDK/EKP

Attachments:
- Sketch Map
- Cost Estimate
- Typical Section

Concur: Thomas J. Turner by CWH
Director of Preconstruction

Approve: [signature]
Chief Engineer



SCALE IN MILES

0 1 2

LOCATION

STRIP MAP

EDS–545(30)
US 1/SR 4 IMPROVEMENTS
JEFFERSON COUNTY
P.I.# 222150

SOURCE: GENERAL HIGHWAY MAP, JEFFERSON CO., GEORGIA
PREPARED BY THE GEORGIA DEPARTMENT OF TRANSPORTATION, 1994

7/2001

PRELIMINARY COST ESTIMATE

Office of Environment/Location

September 17, 2001

County(s) Jefferson

PI Number 222150 **Project Number** EDS-545(30)

Project Name US 1/SR 4 Improvements **Project Length** 2.5 **Miles**

Project Description

US 1/SR 4 from US 1/SR 4 Business to CR 325 in Louisville

Existing Roadway

2 Lanes Rural

Comments

TRAFFIC:

Current Design Year	2010	**Daily Volume (AADT)**	9,800
Future Design Year	2030	**Daily Volume (AADT)**	15,100

[X] **Concept Estimate** [ ] **Feasibility Estimate**

Typical Section(s) Used in Estimate	Typical Section Length
Urban Widening: 2 To 4-Lanes with 14 ft Flush Median	2.5 **Miles**
	Miles
	Miles
	Miles
	Miles
	Miles

Prepared By Keith Posey

Typical Section

Urban Widening: 2 To 4-Lanes with 14 ft Flush Median

Typical Section Length 2.5 **Miles** **Right-of-Way Width** 90 **Feet**

GRADING AND DRAINAGE

	QUANTITY		UNIT COST	TOTAL
1. EARTHWORK				
a. Unclassified Excavation Soil	0	CY	2.60	0
b. Unclassified Excavation Rock	0	CY	10.00	0
c. Borrow Excavation		CY	2.44	
2. MINOR DRAINAGE	2.5	MI	353,479	884,000
GRADING AND DRAINAGE SUBTOTAL				**$884,000**

BASE AND PAVING

	THICKNESS AND SPREAD RATE	QUANTITY		UNIT COST	TOTAL
1. GRADED AGGREGATE BASE	10"	38,719	TN	14.05	544,000
2. ASPHALT PAVING					
a. Asph Conc 9.5 mm Superpave	1 1/2" (165 LB/SY)	7,502	TN	39.10	293,000
b. Asph Conc 19 mm Superpave	3" (330 LB/SY)	9,196	TN	36.76	338,000
c. Asph Conc 25 mm Superpave	4" (440 LB/SY)	12,261	TN	36.76	451,000
d. Bituminous Tack Coat		6,500	GL	0.99	6,000
3. CONCRETE PAVING					
a. Curb and Gutter		29,680	LF	9.88	293,000
b. Miscellaneous		0	MI	52,177	0
4. OTHER PAVING					193,000
BASE AND PAVING SUBTOTAL					**$2,118,000**

LUMP ITEMS

	QUANTITY		UNIT COST	TOTAL
1. TRAFFIC CONTROL	2.5	MI	105,130	263,000
2. CLEARING AND GRUBBING	27	AC	6,000	164,000
3. LANDSCAPING	2.5	MI	12,345	31,000
4. EROSION CONTROL	2.5	MI	58,594	146,000
5. SIGNING/STRIPING	2.5	MI	51,723	129,000
6. OTHER	2.5	MI	120,592	301,000
LUMP ITEM SUBTOTAL				**$1,034,000**

MISCELLANEOUS

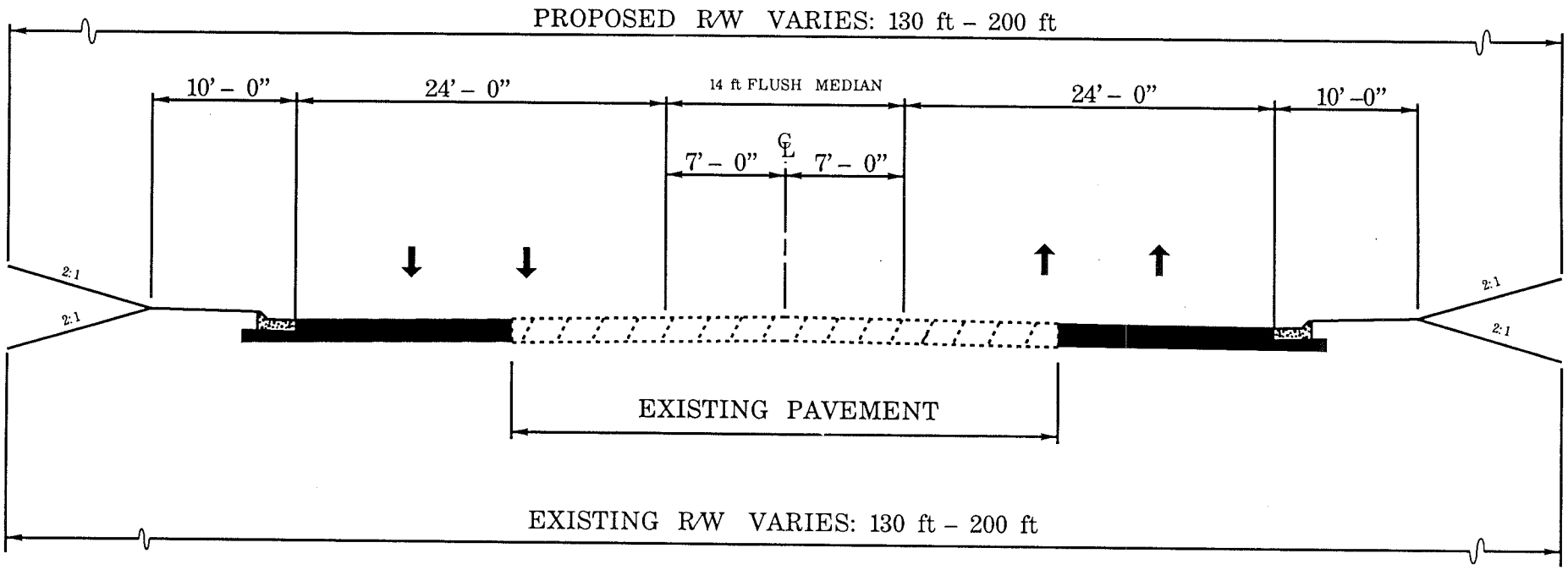
	QUANTITY		UNIT COST	TOTAL
1. GUARDRAIL		LF	10.46	0
a. GUARDRAIL ANCHORS		EA	1,455.79	0
2. DETOURS		MI	300,000.00	0
MISCELLANEOUS SUBTOTAL				**$0**

SPECIAL FEATURES

ESTIMATE SUMMARY

Typical Section	Section Cost (per mile)
1. Urban Widening: 2 To 4-Lanes with 14 ft Flush Median	$1,614,000

PROJECT COST	
A. MAJOR STRUCTURES	
B. GRADING AND DRAINAGE	$884,000
C. BASE AND PAVING	$2,118,000
D. LUMP ITEMS	$1,034,000
E. MISCELLANEOUS	
F. SPECIAL FEATURES	
SUBTOTAL CONSTRUCTION COST	$4,036,000
E. & C. (10%)	$404,000
INFLATION 2 yrs @ 5 % per yr	$455,100
GRAND TOTAL CONSTRUCTION COST	$4,895,000



EDS–545(30) JEFFERSON COUNTY
US 1 IMPROVEMENTS

From US 1/SR 4 Business to
CR 325 in Louisville

NOT TO SCALE