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DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE STP-3213(3)/BRMLB-3213(5) Bibb County **OFFICE** Preconstruction
P. I. Nos. 351130/351135 *Proj. No. 7*
DATE September 8, 2003

FROM *John Kunkler*
Margaret B. Pirkle, P.E., Assistant Director of Preconstruction

TO *MBP* SEE DISTRIBUTION

SUBJECT REVISED PROJECT CONCEPT REPORT APPROVAL

Attached for your files is the approval for subject project.

MBP/cj

Attachment

DISTRIBUTION:

David Mulling
Harvey Keepler
Jerry Hobbs
Percy Middlebrooks
Michael Henry
Phillip Allen
Joe Palladi (file copy)
Brent Story
Thomas Howell
BOARD MEMBER

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

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OFFICE OF PLANNING

INTERDEPARTMENTAL CORRESPONDENCE

FILE: STP-3213(3) & BRMLB 3213(5), Bibb County
P.I. Nos.: 351130 & 351135
CR 723/ Forest Hill Rd from CS 997/Wimbish Rd to
CR 79/Northside Dr & Forest Hill Rd @ Sabbath Creek

OFFICE: Urban Design

DATE: August 11, 2003

FROM: *JBB*
James B. Buchan, P.E., State Urban Design Engineer

TO: Margaret B. Prikle, P.E., Assistant Director of Preconstruction

SUBJECT: **Revised Project Concept Report**

Attached is the original copy of the revised concept report for your further handling and approval in accordance with the PDP.

The revisions include changes to the project limits and typical section included in the currently approved concept. The changes are required to minimize impacts to the surrounding community and to properly interface with an adjacent project.

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

8/12/03
Date

Margaret B. Prikle
State Transportation Planning Administrator

CAH
JBB:MLC

- cc: David Mulling
- Harvey Keeper
- Phillip Allen
- Joseph Palladi
- Percy Middlebrooks
- Thomas Howell
- Paul Liles

REVISED PROJECT CONCEPT REPORT

Need and Purpose: The proposed project widens Forest Hill Road (CR 723) from a two-lane rural section to a three-lane urban section from Wimbish Road (CS 997) to approximately 200 meters south of Northside Drive (CR 79). The project also replaces the bridge culvert over Sabbath Creek (also known as Savage Creek). The purpose of this project is to accommodate additional capacity while also improving the safety and operational efficiency of Forest Hill Road throughout the length of the project.

Forest Hill Road is classified as an urban minor arterial that services the surrounding principal arterial system, by providing access to Vineville Avenue (US 41/SR 19), as well as Northside Drive and Riverside Drive (US 23/SR 87) via Wimbish Road. Riverside Drive and Vineville Avenue are urban principal arterials that provide primary access through Macon and connect to I-75. Forest Hill Road also provides access to adjacent commercial and residential areas along the project corridor. The proposed modifications to Forest Hill Road would improve north-south mobility through Macon, while also providing safer access to the surrounding community through turn lanes and median openings at major intersections.

Forest Hill Road currently operates at LOS C for peak hour traffic volumes from Wimbish Road to north of Forest Lake Drive/ Newport Road. In the design year 2024, for peak hour traffic volumes with no-build conditions, Forest Hill Road will operate at LOS D between Wimbish Road and Old Lundy Road/ Lokchapee Drive and LOS F from Old Lundy Road/ Lokchapee Drive to north of Forest Lake Drive/ Newport Road.

The intersection of Forest Hill Road and Old Lundy Road/ Lokchapee Drive is currently unsignalized. In the design year 2024, for peak hour traffic volumes with no-build conditions, the intersection will operate at LOS F for peak hour traffic volumes.

Accident data for the years 1997, 1998, and 1999 indicate a large percentage of rear-end collisions. The frequency of accidents would decrease with the addition of appropriate turn lanes and increased capacity on Forest Hill Road. The large percentage of rear-end collisions indicates the need to separate through traffic from turning movements. The construction of a two-way left turn lane north of Wimbish Road will improve the safety and operational efficiency by separating left turning traffic from through traffic.

The accident rate is slightly below the statewide average and the injury rate is approximately the same as the statewide average, but as growth in the corridor continues, it is anticipated that the accident and injury rates will deteriorate.

The LOS on Forest Hill Road from Wimbish Road to north of Forest Lake Drive/ Newport Road indicates that intersection improvements and the addition of a center turn

lane will improve the safety and operational efficiency of this section of Forest Hill Road in the design year 2024.

The proposed improvements to Forest Hill Road are included in the Macon Area Transportation Study's (MATS) Adopted Transportation Plan and the Transportation Improvement Program (TIP). The proposed widening of Forest Hill Road from Wimbish Road to Northside Drive is listed in the TIP as MCN-25. Project BRMLB-3213(5), the proposed replacement of the bridge culvert over Sabbath Creek listed is in the TIP as MCN-59. The projects are also in the current Macon-Bibb County Road Improvement Program. Local funding for the proposed project would be derived from a one percent local sales tax, which was passed in a referendum in 1994 for the purpose of road improvements.

Project location: The proposed project reconstructs Forest Hill Road from a point 400 feet north of a relocated Wimbish Road to a point approximately 656 feet south of Northside Drive for an approximate length of 1.81 miles. The beginning mile post reference is 0.73 and the ending post is 2.54. The project is located 90 % in the City of Macon and 10 % in Bibb County.

Description of the approved concept: The currently approved concept is in metric units. The concept widens Forest Hill Road from a two-lane rural section to a three-lane urban section with a 14 foot (4.3 meter) two way left turn lane, two 13 foot (4.0 meter) travel lanes, and 12 foot (3.6 meter) shoulders in both directions, with a 4 foot (1.2 meter) sidewalk on the eastside of the roadway including a 2 foot (0.6 meter) grass strip. Side street widening is proposed where necessary and a traffic signal is proposed at the intersection of Forest Hill Road and relocated Old Lundy Road/ Lokchapee Drive. The project is designed in English units. The design speed is 45 mph (70 km/h).

***Note:** The currently proposed three lane section was provided for this portion of the roadway as a "context sensitive" response to public input.

PDP Classification:

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

Functional Classification: Urban Minor Arterial

Traffic (AADT) as shown in the approved concept:

Opening Year: (2000) 12,400 vpd Design Year: (2021) 19,020 vpd

Proposed features to be revised: The current preliminary plans are in English units. The width of the proposed travel-way will be decreased in order to minimize right of way impacts. The proposed typical section will be revised to include two 12 foot (3.6 meter) travel lanes and a 14 foot (4.2 meter) two way left turn lane, with 12 foot (3.6 meter) shoulders including 5 foot (1.5 meter) sidewalks in both directions. The sidewalk is proposed to be located adequate distance from the travel-way to maximize the planting

area while maintaining 1 to 1.5 feet (0.3 to 0.46 meters) between the back of the sidewalk and the shoulder break point. The project will provide landscaping, and lighting, and will strive to provide a 20 to 25 foot (6.0 – 7.6 meter) flat landing area on steep driveways at the interface with the roadway. The project *beginning* will be moved approximately 131 feet (40 meters) to the north to properly interface with project STP-3213(1), PI # 350520. The total length of the project is approximately 1.78 miles (2.87 kilometers).

Describe the revised feature(s) to be approved: The previously described changes to the typical section are submitted for approval. The proposed changes include lane widths of 12 feet (3.6 meters) and 5 foot (1.5 meter) sidewalks on both sides of the roadway, along with moving the project *beginning* 131 feet (40 meters) north to milepost 0.75.

Updated traffic data (AADT):

Opening Year: (2004) 12,800 vpd Design Year: (2024) 18,900 vpd

Programmed/Schedule:

P.E. Local R/W: Local Construction: FY 2006

***Note: The locals requested GDOT to fund the right of way acquisition. A revised PMA has been sent to the City of Macon and Bibb County reflecting the changes. TPro currently indicates Local right of way funding.**

Revised cost estimates:

1. Construction cost including inflation and E&C -
PI 351130 - \$4,717,361.18, PI 351135 - \$232,666.00
2. Right of Way – Local
3. Utilities – Local

***Note: The proposed changes decrease right of way impacts and increase construction costs for the projects.**

Is the project located in a Non-attainment area? ___ Yes **X** No

Recommendation: This office recommends that the proposed revision to the concept be approved for implementation.

Attachments:

1. Sketch Map
2. Cost Estimate
3. Typical Section

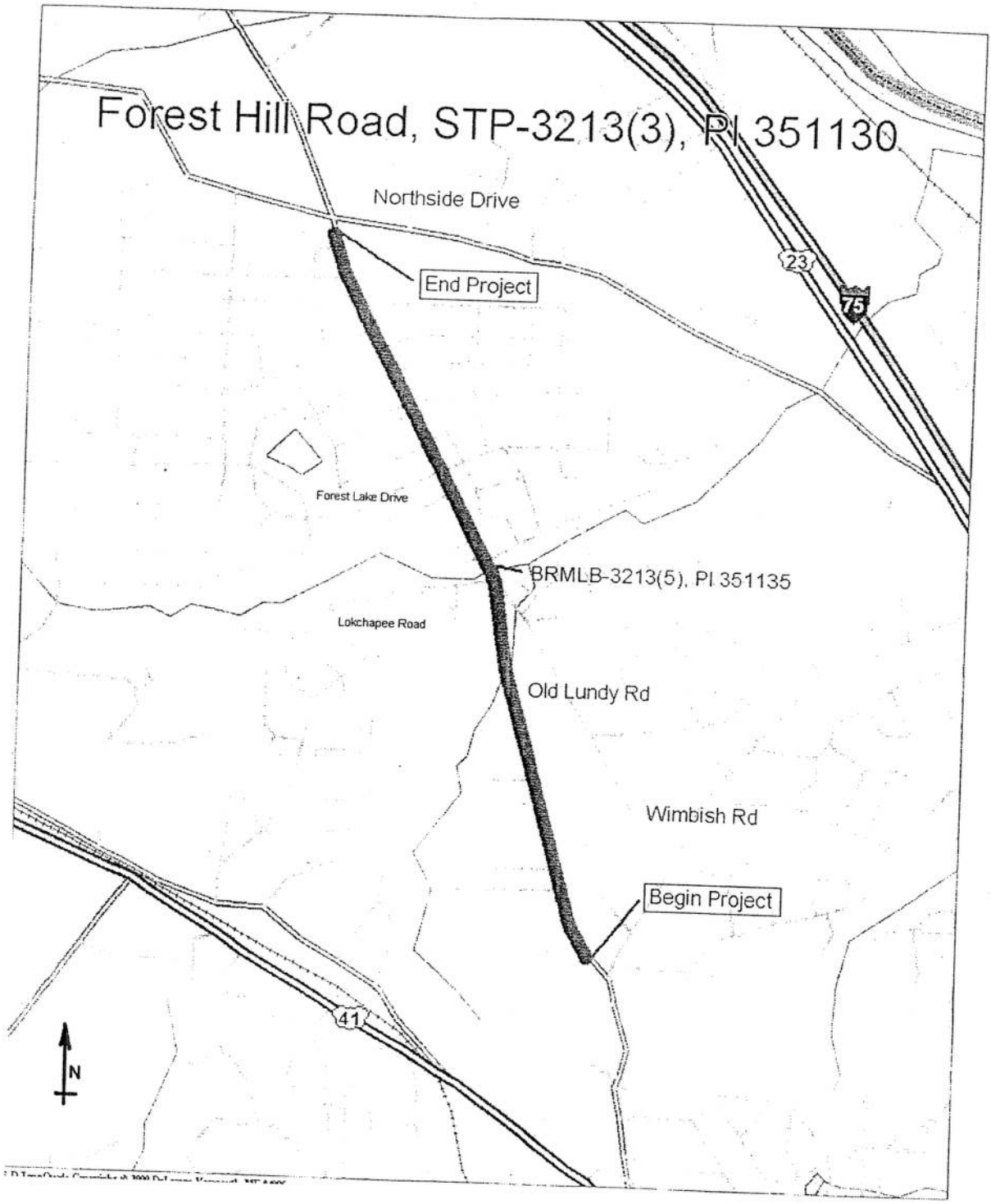
Concur: 

Director of Preeconstruction

Approve: 

Chief Engineer

Forest Hill Road, STP-3213(3), PI 351130



DTM Data Courtesy of 3000 Data Services, Inc. 10/2000

**FOREST HILL ROAD (CR 723)
WIMBISH ROAD (CS 997) TO NORTHSIDE DRIVE (CR 79)**

Date: May 22, 2003

Project Number: STP-3213(3), Bibb County

P.I. No. 351130

Cost Estimate During Project Development

Item	Quantity	Unit	Unit Price	Sub Total	Total
A. Right of Way	1.00	Lump	Local	Local	Local
B. Utilities	1.00	Lump	Local	Local	Local
C. Grading Complete	1.00	Lump	\$708,078.13	\$708,078.13	\$708,078.13
D. Base & Paving					
Graded Agregate Base	8,100.00	TN	\$18.60	\$150,660.00	
12.5mm Superpave	4,100.00	TN	\$44.97	\$184,377.00	
19mm Superpave	5,500.00	TN	\$44.37	\$244,035.00	
25mm Superpave	11,000.00	TN	\$41.88	\$460,680.00	
Leveling	2,500.00	TN	\$37.55	\$93,875.00	
Tack Coat	1,500.00	GAL	\$1.11	\$1,665.00	
					\$1,135,292.00
E. Drainage					
15in Storm Drain Pipe	5,100.00	LF	\$30.41	\$155,091.00	
18in Storm Drain Pipe	950.00	LF	\$36.98	\$35,131.00	
24in Storm Drain Pipe	3,400.00	LF	\$41.43	\$140,862.00	
30in Storm Drain Pipe	650.00	LF	\$47.55	\$30,907.50	
24in Flared End Sec.	1.00	EA	\$415.26	\$415.26	
Catch Basin	115.00	EA	\$1,749.03	\$201,138.45	
Catch Basin, Addl. Depth	18.00	LF	\$176.66	\$3,179.88	
Adjust Manhole to Grade	1.00	EA	\$601.18	\$601.18	
Storm Sewer Manhole	2.00	EA	\$1,548.33	\$3,096.66	
					\$570,422.93
F. Concrete Work					
Driveway Concrete	5,500.00	SY	\$23.25	\$127,875.00	
Sidewalk	11,000.00	SY	\$22.80	\$250,800.00	
Curb & Gutter, TP 2	23,000.00	LF	\$13.10	\$301,300.00	
					\$679,975.00
G. Erosion Control	1.00	Lump	\$211,966.88	\$211,966.88	\$211,966.88
H. Traffic Control	1.00	Lump	\$140,000.00	\$140,000.00	\$140,000.00

I.	Guardrail						
	W-Beam Rail	1,200.00	LF	\$10.26		\$12,312.00	
	Type 1 Anchor	5.00	EA	\$483.43		\$2,417.15	
	Type 12 Anchor	5.00	EA	\$1,903.97		\$9,519.85	
							\$24,249.00
J.	Signs, Striping, Signals, Lighting						
	Striping	1.00	Lump	\$25,261.90		\$25,261.90	
	Signs	1.00	Lump	\$8,606.60		\$8,606.60	
	Traffic Signals	1.00	EA	\$66,000.00		\$66,000.00	
	Lighting	1.00	Lump	\$155,000.00		\$155,000.00	
							\$254,868.50
K.	Grassing/Lanscaping	1.77	Mile @	\$64,000.00		\$113,280.00	\$113,280.00
L.	Miscellaneous						
	Field Engineers Office	1.00	EA	\$39,980.20		\$39,980.20	
	Right of Way Marker	150.00	EA	\$77.95		\$11,692.50	
							\$51,672.70
M.	Major Structures	0.00	EA	\$0.00		\$0.00	\$0.00

ESTIMATE SUMMARY

A.	Right of Way	Local
B.	Utilities	Local

CONSTRUCTION COST SUMMARY

C.	Grading Complete	\$708,078.13
D.	Base & Paving	\$1,135,292.00
E.	Drainage	\$570,422.93
F.	Concrete Work	\$679,975.00
G.	Erosion Control	\$211,966.88
H.	Traffic Control	\$140,000.00
I.	Guardrail	\$24,249.00
J.	Signs, Striping, Signals, Lighting	\$254,868.50
K.	Grassing/Lanscaping	\$113,280.00
L.	Miscellaneous	\$51,672.70

ROADWAY SUBTOTAL \$3,889,805.14

M.	Major Structures	\$0.00
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CONSTRUCTION TOTAL \$3,889,805.14

2 years inflation at 5% \$398,705.03

10 % E & C \$428,851.02

TOTAL CONSTRUCTION ESTIMATE \$4,717,361.18

**FOREST HILL ROAD (CR 723) @ SABBATH CREEK
CULVERT REPLACEMENT**

Date: May 22, 2003

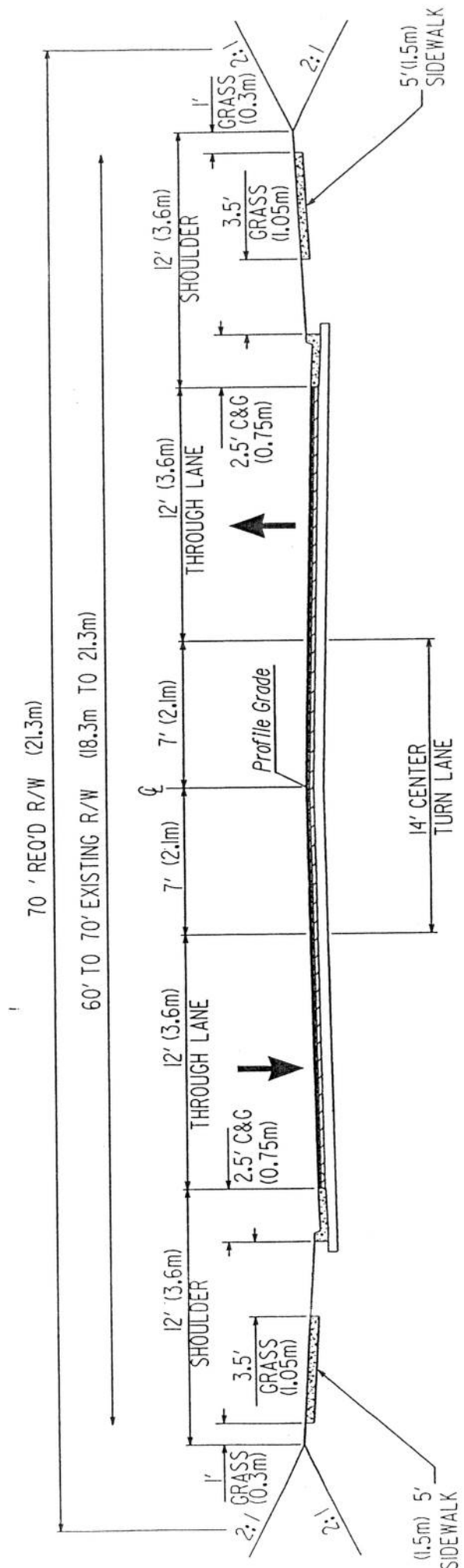
Project Number: BRMLB-3213(5), Bibb County

P.I. No. 351135

Cost Estimate During Project Development

Item	Quantity	Unit	Unit Price	Sub Total	Total
A. Major Structures, 10' x 10' Triple Box Culvert					
Concrete	504.77	CY	\$311.94	\$157,457.33	
Bar Reinf. Steel	45171.48	LB	\$0.54	\$24,392.60	
Remove Existing Culvert	1.00	Lump	\$10,000.00	\$10,000.00	
					\$191,849.93
				2 years inflation at 5%	\$19,664.62
				10 % E & C	\$21,151.45
				TOTAL CONSTRUCTION ESTIMATE	\$232,666.00

TYPICAL SECTION (N.T.S.)



PROJECT STP-3213(3), P.I. NO. 351130
 PROJECT BHMLB 3213(5), P.I. NO. 351135 - MACON-BIBB CO. PROJ. NO. 8
 FOREST HILL ROAD FROM WIMBISH TO NORTHSIDE DRIVE
 INCLUDING BRIDGE CULVERT OVER SABBATH CREEK

