

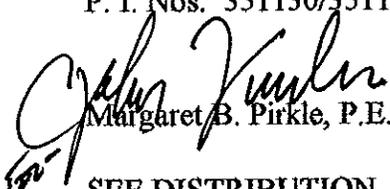
ORIGINAL TO GENERAL FILES

D.O.T. 66

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE STP-3213(3)/BRMLB-3213(5) Bibb County **OFFICE** Preconstruction
P. I. Nos. 351130/351135 **DATE** September 8, 2003

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

TO 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



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:  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


State Transportation Planning Administrator


JBB:MLC

cc: David Mulling
Harvey Keepler
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.

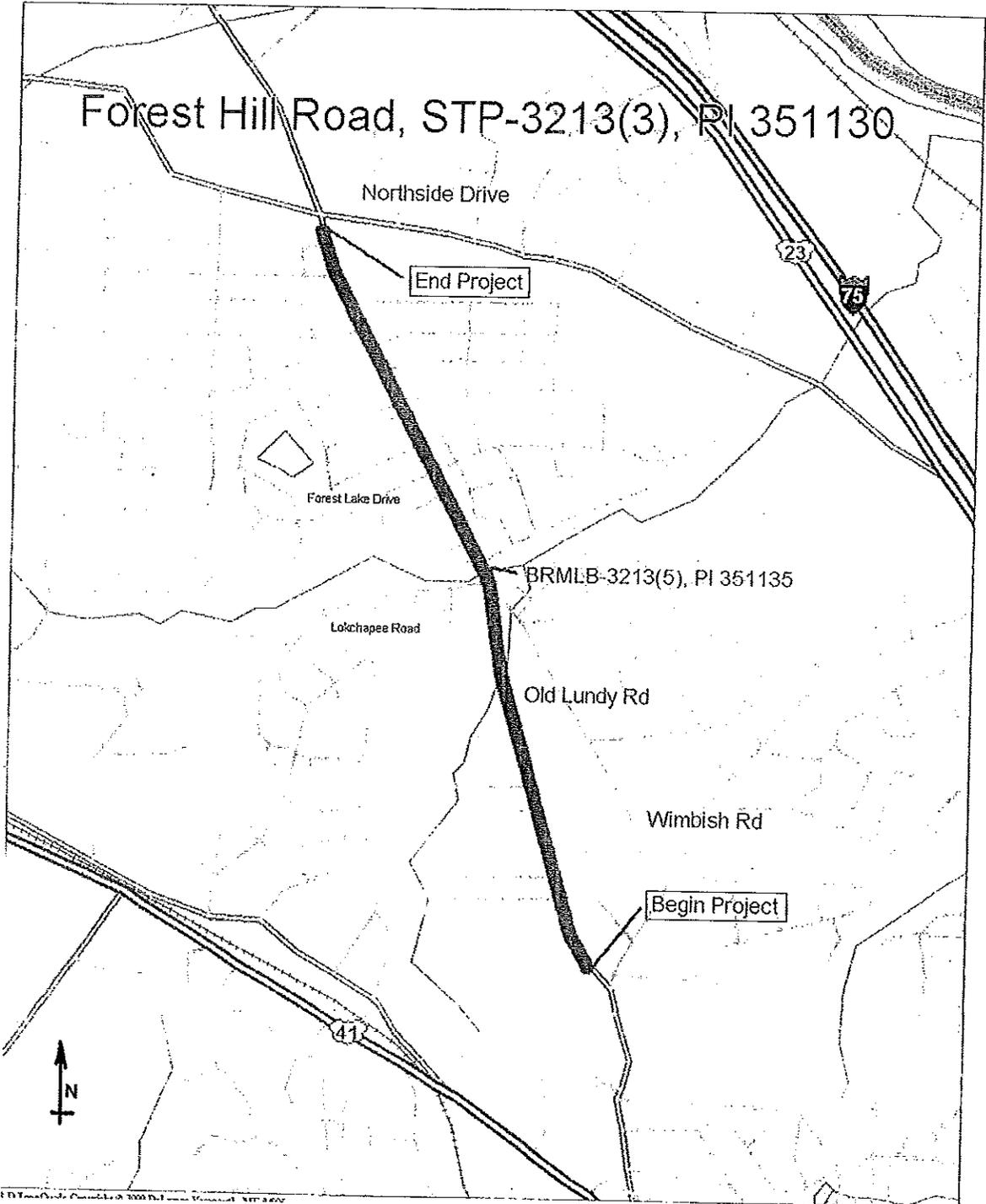
Forest Hill Road currently operates at LOS C for peak hour traffic volumes from Wimbish Road to north of Forest Lake Drive/ Newport Road. In the design year 2024, for peak hour traffic volumes with no-build conditions, Forest Hill Road will operate at LOS D between Wimbish Road and Old Lundy Road/ Lokchapee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



**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 |
| | 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

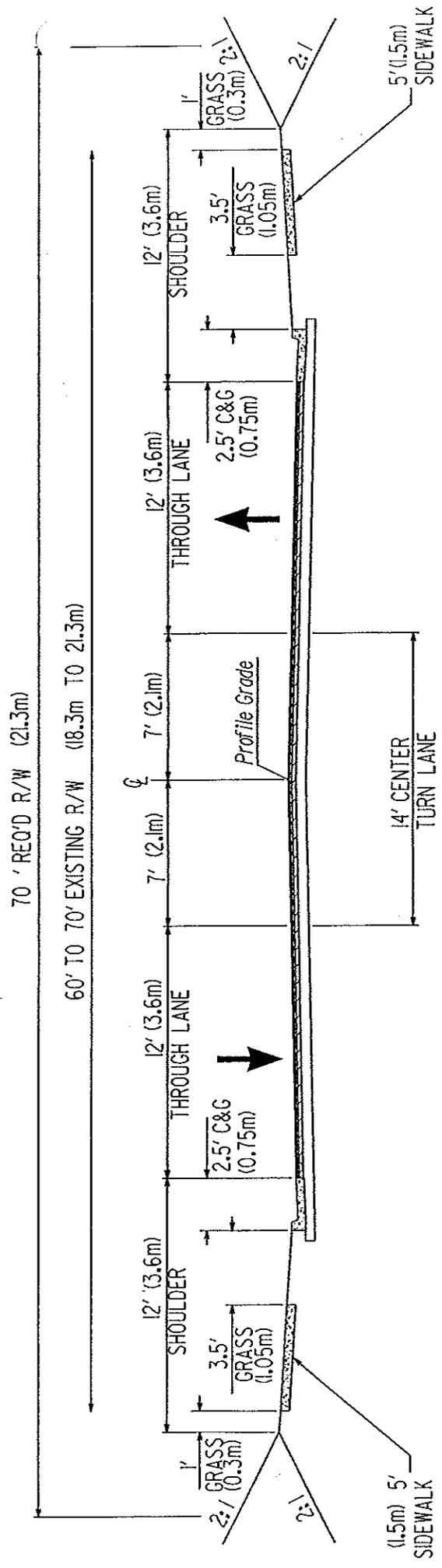
Project Number: BRMLB-3213(5), Bibb County

P.I. No. 351135

Cost Estimate During Project Development

| <u>Item</u> | <u>Quantity</u> | <u>Unit</u> | <u>Unit Price</u> | <u>Sub Total</u> | <u>Total</u> |
|--|-----------------|-------------|------------------------------------|------------------|---------------------|
| 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