T040

Department of Transportation

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COMMISSIONER
(404) 656-5206

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CHIEF ENGINEER
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State of Georgia
5025 New Peachtree Road N.E.
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DEPUTY COMMISSIONER
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TREASURER
(404) 656-5224

July 16, 2004

Ernest Slaughter
Deputy Director
Fulton County Department of Public Works
141 Pryor St., S.W., Suite 6001
Atlanta, Georgia 30303

RE: BRZLB-121(22), Fulton Co.
PI # 771275
CR 1392/ Cochran Mill Road over Pea Creek

Dear Mr. Slaughter:

Attached please find a copy of the approved Concept Report along with the Notice of Location and Design Approval for the above referenced project. As you are aware this project involves a Project Management Agreement (PMA) between the County and the Department. Accordingly, the County is required to advertise the approved Notice of Location and Design (L&D Notice) in the legal organ (newspaper) for Fulton County as specified in the Plan Development Process (PDP). The L&D Notice should be advertised weekly for four consecutive weeks, with the first publication beginning within thirty days of concept approval.

If you should have any questions or comments, please contact Merishia Robinson or myself at (770) 986-1050.

Sincerely,

Mike Lobdell, P.E.
District Preconstruction Engineer

ML:mkr

Cc: Scott Dubord, P.E./PMT
Ron Morris, P.E./PMT
File

ORIGINAL TO GENERAL FILES

D.O.T. 66

RE

JUN 7 2004

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

DISTRICT NO. 7

INTERDEPARTMENT CORRESPONDENCE

FILE BRZLB-121(22) Fulton County
P. I. No. 771275
CR 1292/Cochran Mill Road over Pea Creek

OFFICE Preconstruction

DATE June 2, 2004

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

TO SEE DISTRIBUTION

SUBJECT PROJECT CONCEPT REPORT APPROVAL

Attached for your files is the approval for subject project.

MBP/cj

Attachment

DISTRIBUTION:

David Mulling
Harvey Keepler
Jerry Hobbs
Jamie Simpson
Michael Henry
Phillip Allen
Joe Palladi (file copy)
Paul Liles
Brent Story
Buddy Gratton
BOARD MEMBER

D.O.T. 66

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE BRZLB-121(22) Fulton County
P.I. No. 771275
CR 1392/Cochran Mill Road over Pea Creek

OFFICE Preconstruction

DATE May 20, 2004

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

TO Paul V. Mullins, P.E., Chief Engineer

SUBJECT PROJECT CONCEPT REPORT

This project is the replacement of a narrow and structurally deficient bridge on CR 1392/Cochran Mill Road over Pea Creek, 7.0 miles northwest of Palmetto, Georgia. The existing bridge, built in 1935, is 29' x 20' with a wooden beam deck overlaid with asphalt and a sufficiency rating of 21. The existing approaches consist of two, 12' lanes with rural shoulders on 50'-55' of existing right-of-way. The base year traffic (2002) is 1400 VPD and the design year traffic (2022) is 3,070 VPD. The proposed design speed is 55 MPH.

The construction proposes to replace the existing structure with a 80' x 38' concrete bridge at the existing bridge site. The approaches will consist of two, 12' lanes with 10' rural shoulders on 80'-100' of proposed right-of-way. The existing bridge will be closed to traffic during construction.

Environmental concerns include requiring a COE 404 Permit; a Categorical Exclusion will be prepared; a public hearing open house is not required; time saving procedures are appropriate.

The estimated costs for this project are:

	PROPOSED	APPROVED	FUNDING	PROG DATE
Construction (includes E&C and inflation)	$681,000	$129,000	Q11	2006
Right-of-Way & Utilities*	Local	Local		

*Funton County signed LGPA on 5-31-00 for PE, right-of-way, and utilities, and 20% of construction costs.

BRZLB-121(22) Fulton
May 20, 2004

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

MBP:JDQ/cj

Attachment

CONCUR _____
Thomas L. Turner, P.E., Director of Preconstruction

APPROVE _____
Paul V. Mullins, P.E., Chief Engineer

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENTAL CORRESPONDENCE

FILE: BRZLB-121(22) Fulton
P.I. No. 771275
Cochran Mill Road @ Pea Creek

OFFICE: Engineering Services

DATE: May 24, 2004

RECEIVED
MAY 24 2004

FROM: David Mulling, Project Review Engineer REW

TO: Meg Pirkle, Assistant Director of Preconstruction

SUBJECT: **CONCEPT REPORT**

We have reviewed the Concept Report submitted May 11, 2004 by the letter from Buddy Gratton dated May 3, 2004, and have the following comment:

- Since this bridge site is at a FEMA regulated floodway, ensure that FEMA coordination happens during project development.

The costs for the project are:

Construction	$561,270	
Inflation	$57,530	
E&C	$61,880	
Reimbursable Utilities	$50,000	(LGPA signed on 3/31/00)
Right of Way	$50,000	(LGPA signed on 3/31/00)

REW

c: Buddy Gratton, Attn: Chris Woods

SCORING RESULTS AS PER MOG 2440-2

Project Number:	County:	PI No.:
BRZLB-121(22)	Fulton	771275

Report Date:	Concept By:
April 30, 2004	DOT Office: District 7
☒ Concept Stage	Consultant: PMT

Project Type: Choose One From Each Column			
	☐ Major	☐ Urban	☐ ATMS
	☒ Minor	☒ Rural	☒ Bridge Replacement
			☐ Building
			☐ Interchange Reconstruction
			☐ Intersection Improvement
			☐ Interstate
			☐ New Location
			☐ Widening & Reconstruction
			☐ Miscellaneous

FOCUS AREAS	SCORE	RESULTS
Presentation	100	
Judgement	100	
Environmental	100	
Right of Way	100	
Utility	100	
Constructability	100	
Schedule	100	

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENTAL CORRESPONDENCE

RECEIVED
MAY 10 2004

FILE: BRZLB-121(22), Fulton County
CR 1392/Cochran Mill Rd. at Pea Creek
P.I. # 771275

OFFICE: Chamblee\Metro

DATE: May 3, 2004

FROM: Buddy Gratton, P.E. District Engineer

TO: Meg Pirkle, Assistant Director of Preconstruction

SUBJECT: ***PROJECT CONCEPT REPORT***

Attached is the original copy of the concept report for the above referenced project. It is submitted to your office further for approval in accordance with the PDP.

If you have any questions in regards to this concept, please contact Chris Woods at (770) 986-1050.

BG\MAL\cnw

cc: Philip Allen
David Mulling
Harvey Keepler
Paul Liles
Joe Palladi
File

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

Project Concept Report

Project Number: BRZLB-121(22)
County: Fulton
P. I. Number: 771275

Federal Route Number: N/A
State Route Number: N/A
County Route Number: 1392

See Sheet 2 for Project Location Sketch

Bridge Replacement: Cochran Mill Rd. (CR 1392) over Pea Creek

Recommended for approval:

DATE: 4/30/04 _____ Project Manager

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

DATE: _____ State Transportation Planning Administrator

DATE: _____ Office of Financial Planning Administrator

DATE: _____ State Environmental/Location Engineer

DATE: _____ State Traffic Safety Design Engineer

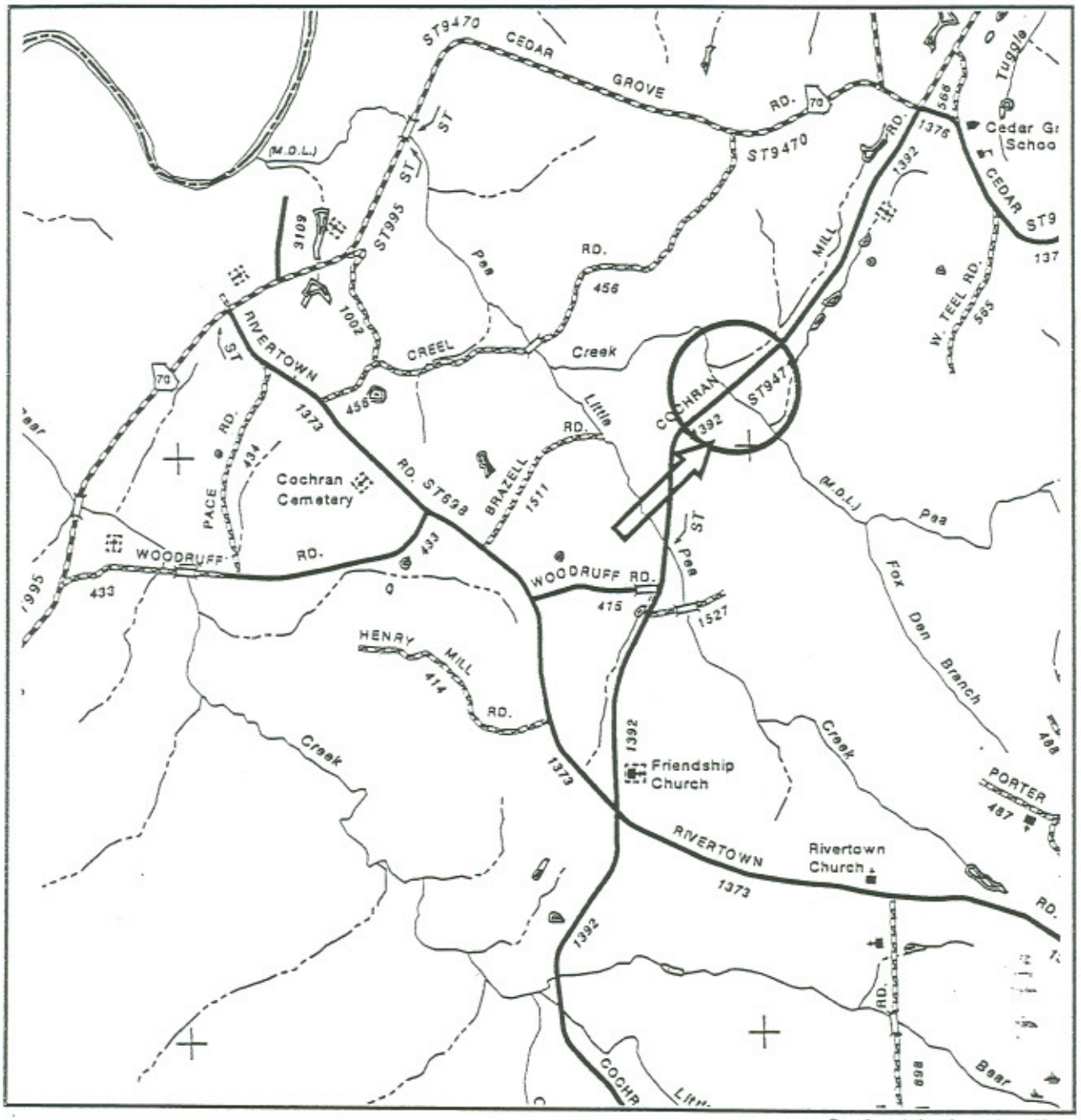
DATE: 4/28/04 _____ District Engineer

DATE: _____ Project Review Engineer

DATE: _____ State Bridge & Structural Design Engineer

27 April, 2004
Project Concept Report Page: 2
Project Number: BRZLB-121(22)
P. I. Number: 771275
County: Fulton

State of Georgia
Department of Transportation



Scale: 1 inch = 1 mile

Location Map
Project: BRZLB-121(22) Fulton County **PI No.:** 771275
Description: Cochran Mill Road (CR 1392) over Pea Creek, 10.3 mi SW of Atlanta

Need and Purpose:

Bridge Project BRZLB-121(22) will replace the structurally deficient bridge located on Cochran Mill Road (CR 1392) at Pea Creek in Fulton County. Cochran Mill Road is located between SR 70 (Cedar Grove Rd.) and SR 154 (Cascade-Palmetto Hwy.), approximately 10.3 miles southwest of the city of Atlanta. The bridge's sufficiency rating is 21.44. The Office of Bridge Maintenance has determined that any structure with a sufficiency rating less than 50 should be replaced rather than improved.

Cochran Mill Road (CR 1392) is functionally classified as a Rural Minor Collector. The posted speed limit along Cochran Mill Road is 45 mph. The bridge is located 10.3 miles southwest of the city of Atlanta in Fulton County. It was constructed in 1935 and has not been reconstructed. The bridge structure is in poor condition with deterioration of the timber deck. The steel superstructure has extensive corrosion with section loss. The section where the proposed project would take place is not a school bus route. Cochran Mill Road is not part of the Statewide Bicycle Plan, however it is considered a South Fulton Scenic By-Way.

The projected ADT for this section of highway in 2005 is 1,400 and the projected traffic in 2025 is 3,070. Trucks represent an average of 1% of traffic during a twenty-four hour traffic count and an average of 1% of traffic during a peak hour traffic count. Currently listed in the Georgia Department of Transportation's Statewide Improvement Program is one additional bridge replacement on Cochran Mill Rd. (CR 1392) in Fulton County. P.I. 771276 consists of replacing the bridge over Little Pea Creek 10.5 miles southwest of the city of Atlanta.

The proposed structure will be an 80' long by 38' wide, single-span reinforced concrete bridge. Replacing this bridge will bring it up to current design standards and in doing so will improve the operation and safety of this roadway.

Description of the project:
This project will replace the structurally deficient bridge on Cochran Mill Road (CR 1392) over Pea Creek with a new reinforced concrete bridge. This project is located in Fulton County, 10.3 miles southwest of Atlanta in the 13th Congressional District and Ga. Militia Districts 2 and 3. The proposed project will be approximately 0.21 miles in length.

Is the project located in a Non-attainment area? ☒ **Yes** ☐ **No**
PDP Classification: Major ☐, Minor ☒
Federal Oversight: Full Oversight ☐, Exempt ☒, State Funded ☐, or Others ☐

Functional Classification: Minor Collector

U. S. Route Number(s): N/A **State Route Number(s):** N/A

Traffic (AADT):
Current Year: (2005) 1,400 Design Year: (2025) 3,070

Existing Design Features:

- Typical Section: Two lane rural section with 12-foot travel lanes, shoulders and side ditches.
- Posted Speed 45 mph Maximum degree curvature N/A
- Maximum Grade: 1.4 %
- Width of right of way: 50 - 55 ft.
- Major structures: 29' x 20' Bridge at Pea Creek
- Major interchanges or intersections along the project: None
- Existing length of roadway segment and the beginning mile logs for each county segment. Project begins at ML 2.05 and extends north approximately 0.21 miles to ML 2.26.

Proposed Design Features:

- Proposed typical section(s): Two 12-foot travel lanes with 10-foot shoulders and rural side ditch sections.
- Proposed Design Speed Mainline 45 mph
- Proposed Maximum grade Mainline 1.4 % Maximum grade allowable 7 %
- Proposed Maximum grade Side Street N/A Maximum grade allowable 9 %
- Proposed Maximum grade driveway N/A
- Proposed Maximum degree of curve N/A Minimum radius allowable 660
- Right of way
  - ⇒ Width 80-100 ft.
  - ⇒ Easements: Temporary ☐, Permanent ☒, Utility ☐, Others ☐
  - ⇒ Type of access control: Full ☐, Partial ☐, By Permit ☒, Others ☐
  - ⇒ Number of parcels 3 Number of displacements: None
- Structures:
  - ⇒ Bridges: Approximate 80' x 38' Concrete Bridge
  - ⇒ Retaining walls: None anticipated
- Major intersections and interchanges: None
- Traffic control during construction: Bridge to be closed during construction.
- Design Exceptions to controlling criteria anticipated:

	UNDETERMINED	YES	NO
HORIZONTAL ALIGNMENT:	☐	☐	☒
ROADWAY WIDTH:	☐	☐	☒
SHOULDER WIDTH:	☐	☐	☒
VERTICAL GRADES:	☐	☐	☒
CROSS SLOPES:	☐	☐	☒
STOPPING SITE DISTANCE:	☐	☐	☒
SUPERELEVATION RATES:	☐	☐	☒
HORIZONTAL CLEARANCE	☐	☐	☒
SPEED DESIGN:	☐	☐	☒
VERTICAL CLEARANCE:	☐	☐	☒
BRIDGE WIDTH:	☐	☐	☒
BRIDGE STRUCTURAL CAPACITY:	☐	☐	☒

- Design Variances: None
- Environmental concerns: Stream & wetlands
- Level of environmental analysis:

⇒ Are Time Saving Procedures appropriate? Yes ☒, No ☐
⇒ Categorical Exclusion: ☒ Anticipated.

- Utility involvement: Greystone Power, City of Atlanta Bureau of Water, Bell South Telecommunications

Project responsibilities:

⇒ Design, Fulton Co.
⇒ Right of Way Acquisition, Fulton Co.
⇒ Relocation of Utilities, Fulton Co.
⇒ Letting to contract, GDOT
⇒ Supervision of construction, GDOT
⇒ Providing material pits, Contractor
⇒ Providing detours, Contractor

Coordination:

- Concept Meeting Date 3/5/04
- Local government commitments: LGPA signed by Fulton County, March 31, 2000.
- Other projects in area: STP-00B(7), P.I. No. 771276, Cochran Mill Rd. (CR 1392) over Little Pea Creek; BRZLB-121(20), P.I. No. 771273, Johnson Road @ Peaks Creek.
- Other coordination to date: Future detour meeting
- Railroads: None

Scheduling – Responsible Parties' Estimate

- Time to complete environmental process: 18 Months.
- Time to complete preliminary construction plans: 3 Months.
- Time to complete right of way plans: 3 Months.
- Time to complete the Section 404 Permit: 12 Months.
- Time to complete final construction plans: 4 Months.
- Time to complete to purchase right of way: 9 Months.
- List other major items that will affect the project schedule: Potential environmental concerns.

Alternates considered:

1) Replace existing bridge with an approximate 80 ft. x 38 ft. bridge on a parallel alignment 10' to the west of the existing structure to stay off existing wetland areas, closing the road and detouring traffic along Cascade-Palmetto Hwy. **This is the preferred alternate.**
2) Replace existing bridge with an approximate 80 ft. x 38 ft. bridge at existing location. closing the road and detouring traffic along Cascade-Palmetto Hwy - eliminated due to environmental impacts.
3) Replace existing bridge with a quadruple 10' x 10' concrete bridge culvert at existing location, closing the road and detouring traffic along Cascade-Palmetto Hwy. – eliminated due to environmental impacts, hydraulic & hydrologic constraints and aesthetics.
4) No Build – eliminated due to structurally deficient bridge.

Programmed Dates*:

- Right of Way: 2005
- Construction: 2005

* Note: This project has not yet been programmed and is currently locally funded. Once it is programmed, it is the recommendation of the design team that it be moved to FY06 construction.

Comments: This project is located within a FEMA regulatory floodway, Zone AE and Zone X, base flood elevations 770.0.

Attachments:

1. Cost Estimates:
   a) Construction including E&C,
   b) Right of Way, and
   c) Utilities
2. Sketch location map
3. Typical Sections
4. Bridge Inventory
5. Notice of Location and Design Approval
6. Concept Team Meeting Minutes

27 April, 2004
Project Number: BRZLB-121-(22)
P. I. Number: 771275
County: Fulton

State of Georgia
Department of Transportation

PRELIMINARY COST ESTIMATE – Alternate 1

PROJECT NUMBER: BRZLB-121-(22) **COUNTY:** Fulton

DATE: April 23, 2004 **ESTIMATED LETTING DATE:** 2006

PREPARED BY: PBS&J **PROJECT LENGTH:** 0.21 miles

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

PROJECT COST	
A. RIGHT-OF-WAY:	
1. PROPERTY (LAND & EASEMENT)	$40,000
2. DISPLACEMENTS; RES:0, BUS:0, M.H.:0	$0
3. OTHER COST (ADM./COST, INFLATION)	$10,000
SUBTOTAL A:	**$50,000**
B. REIMBURSABLE UTILITIES: (LGPA)	
1. RAILROAD	$0
2. TRANSMISSION LINES	$0
3. SERVICES	$50,000
SUBTOTAL B:	**$50,000**
CONSTRUCTION	
C. MAJOR STRUCTURES:	
1. RETAINING WALLS	$0
2. BRIDGE (80' x 38' @ $90/SF)	$273,600
3. BRIDGE CULVERTS	$0
SUBTOTAL C:	**$273,600**

27 April, 2004
Project Number: BRZLB-121-(22)
P. I. Number: 771275
County: Fulton

State of Georgia
Department of Transportation

D. GRADING AND DRAINAGE	
1. EARTHWORK	
a. BORROW: (12,000 cu.yd. @ $6.00)	$72,000
b. EXCAVATION: (0 cu.yd. @ $4.00)	$0
SUBTOTAL D-1:	$72,000
2. DRAINAGE	
a. SLOPE DRAIN PIPE	$1,000
b. SPILLWAY TYPE 1	$0
SUBTOTAL D-2:	$1,000
SUBTOTAL D:	**$73,000**
E. BASE AND PAVING	
1. AGGREGATE BASE (2640 sq. yd. of 8" @ $8)	$21,120
2. SURFACE AGGREGATE (100 tons @ $15)	$1,500
3. ASPHALT PAVING	
a. Surface (230 tons @ $35)	$8,050
b. Binder (300 tons @ $40)	$12,000
c. Tack Coat (150 gals @ $1)	$150
SUBTOTAL E-3:	$20,200
4. CONCRETE APPROACH SLABS (260 SY @ $105 /SY)	$27,300
SUBTOTAL E:	**$70,120**

F. LUMP ITEMS	
1. TRAFFIC CONTROL	$30,000
2. CLEARING AND GRUBBING	$30,000
3. GRASSING	$20,000
4. EROSION CONTROL	$10,000
5. TEMP. EROSION CONTROL	$25,000
6. REMOVE EXISTING BRIDGE	$10,000
SUBTOTAL F:	**$125,000**

27 April, 2004
Project Number: BRZLB-121-(22)
P. I. Number: 771275
County: Fulton

State of Georgia
Department of Transportation

G. MISCELLANEOUS	
1. SIGNING	
a. SIGNS	$0
b. POSTS	$0
SUBTOTAL G-1:	$0
2. STRIPING	
a. 5 IN WHITE SOLID (2300 FT @ $0.75)	$1,725
b. 5 IN YELLOW SOLID (2300 FT @ $0.75)	$1,725
SUBTOTAL G-2:	$3,450
3. GUARDRAIL	
a. TYPE W (1000 FT @ $12)	$12,000
c. TYPE 12 ANCHORS (2 @ $1600)	$3,200
d. TYPE 1 ANCHORS (2 @ $450)	$900
SUBTOTAL G-3:	$16,100
SUBTOTAL G:	**$19,550**

27 April, 2004
Project Number: BRZLB-121-(22)
P. I. Number: 771275
County: Fulton

State of Georgia
Department of Transportation

ESTIMATE SUMMARY – Alternate 1		
A. RIGHT-OF-WAY		$50,000
B. REIMBURSABLE UTILITIES		$50,000
CONSTRUCTION		
C. MAJOR STRUCTURES		$273,600
D. GRADING AND DRAINAGE		$73,000
E. BASE AND PAVING		$70,120
F. LUMP ITEMS		$125,000
G. MISCELLANEOUS		$19,550
SUBTOTAL: CONSTRUCTION COST		*$561,270*
INFLATION (5% PER YEAR)		*$57,530*
NUMBER OF YEARS	2	
E. & C. (10%)		*$61,880*
TOTAL CONSTRUCTION COST		**$680,680**
GRAND TOTAL PROJECT COST – Alternate 1		**$780,680**

27 April, 2004
Project Number: BRZLB-121-(22)
P. I. Number: 771275
County: Fulton

State of Georgia
Department of Transportation

PRELIMINARY COST ESTIMATE – Alternate 2

PROJECT NUMBER: BRZLB-121-(22) **COUNTY:** Fulton

DATE: April 23, 2004 **ESTIMATED LETTING DATE:** 2006

PREPARED BY: PBS&J **PROJECT LENGTH:** 0.13 miles

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

PROJECT COST	
A. RIGHT-OF-WAY:	
1. PROPERTY (LAND & EASEMENT)	$20,000
2. DISPLACEMENTS; RES:0, BUS;0, M.H.:0	$0
3. STREAM MITIGATION CREDITS	$75,000
4. OTHER COST (ADM./COST, INFLATION)	$10,000
SUBTOTAL A:	**$105,000**
B. REIMBURSABLE UTILITIES: (LGPA)	
1. RAILROAD	$0
2. TRANSMISSION LINES	$0
3. SERVICES	$50,000
SUBTOTAL B:	**$50,000**
CONSTRUCTION	
C. MAJOR STRUCTURES:	
1. RETAINING WALLS	$0
2. BRIDGE (80' x 38' @ $90/SF)	$273,600
3. BRIDGE CULVERTS	$0
SUBTOTAL C:	**$273,600**

D. GRADING AND DRAINAGE	
1. EARTHWORK	
a. BORROW: (6,500 cu.yd. @ $6.00)	$39,000
b. EXCAVATION: (100 cu.yd. @ $4.00)	$400
SUBTOTAL D-1:	$39,000
2. DRAINAGE	
a. SLOPE DRAIN PIPE	$0
b. SPILLWAY TYPE 1	$0
SUBTOTAL D-2:	$0
SUBTOTAL D:	**$39,400**
E. BASE AND PAVING	
1. AGGREGATE BASE (1720 sq. yd. of 8" @ $8)	$13,760
2. SURFACE AGGREGATE (100 tons @ $15)	$1,500
3. ASPHALT PAVING	
a. Surface (190 tons @ $35)	$6,650
b. Binder (150 tons @ $40)	$6,000
c. Tack Coat (100 gals @ $1)	$100
SUBTOTAL E-3:	$12,750
4. CONCRETE APPROACH SLABS (260 SY @ $105 /SY)	$27,300
SUBTOTAL E:	**$55,310**

F. LUMP ITEMS	
1. TRAFFIC CONTROL	$30,000
2. CLEARING AND GRUBBING	$25,000
3. GRASSING	$10,000
4. EROSION CONTROL	$10,000
5. TEMP. EROSION CONTROL	$25,000
6. REMOVE EXISTING BRIDGE	$10,000
SUBTOTAL F:	**$110,000**

G. MISCELLANEOUS	
1. SIGNING	
a. SIGNS	$0
b. POSTS	$0
SUBTOTAL G-1:	$0
2. STRIPING	
a. 5 IN WHITE SOLID (1400 FT @ $0.75)	$1,050
b. 5 IN YELLOW SOLID (1400 FT @ $0.75)	$1,050
SUBTOTAL G-2:	$2,100
3. GUARDRAIL	
a. TYPE W (800 FT @ $12)	$9,600
c. TYPE 12 ANCHORS (2 @ $1600)	$3,200
d. TYPE 1 ANCHORS (2 @ $450)	$900
SUBTOTAL G-3:	$13,700
SUBTOTAL G:	**$15,800**

ESTIMATE SUMMARY – Alternate 2		
A. RIGHT-OF-WAY		$105,000
B. REIMBURSABLE UTILITIES		$50,000
CONSTRUCTION		
C. MAJOR STRUCTURES		$273,600
D. GRADING AND DRAINAGE		$39,400
E. BASE AND PAVING		$55,310
F. LUMP ITEMS		$110,000
G. MISCELLANEOUS		$15,800
SUBTOTAL: CONSTRUCTION COST		*$494,110*
INFLATION (5% PER YEAR)		*$50,646*
NUMBER OF YEARS	2	
E. & C. (10%)		*$54,476*
TOTAL CONSTRUCTION COST		**$599,232**
GRAND TOTAL PROJECT COST – Alternate 2		**$754,232**

PRELIMINARY COST ESTIMATE – Alternate 3

PROJECT NUMBER: BRZLB-121-(22) **COUNTY:** Fulton

DATE: April 23, 2004 **ESTIMATED LETTING DATE:** 2006

PREPARED BY: PBS&J **PROJECT LENGTH:** 0.13 miles

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

PROJECT COST	
A. RIGHT-OF-WAY:	
1. PROPERTY (LAND & EASEMENT)	$20,000
2. DISPLACEMENTS; RES:0, BUS;0, M.H.:0	$0
3. STREAM MITIGATION CREDITS	$75,000
4. OTHER COST (ADM/COST, INFLATION)	$10,000
SUBTOTAL A:	**$105,000**
B. REIMBURSABLE UTILITIES: (LGPA)	
1. RAILROAD	$0
2. TRANSMISSION LINES	$0
3. SERVICES	$50,000
SUBTOTAL B:	**$50,000**
CONSTRUCTION	
C. MAJOR STRUCTURES:	
1. RETAINING WALLS	$0
2. BRIDGE	$0
3. BRIDGE CULVERTS (4 – 10' X 10')	$200,000
SUBTOTAL C:	**$200,000**

D. GRADING AND DRAINAGE	
1. EARTHWORK	
a. BORROW: (6,500 cu.yd. @ $6.00)	$39,000
b. EXCAVATION: (100 cu.yd. @ $4.00)	$400
SUBTOTAL D-1:	$39,400
2. DRAINAGE	
a. SLOPE DRAIN PIPE	$0
b. SPILLWAY TYPE 1	$0
SUBTOTAL D-2:	$0
SUBTOTAL D:	**$39,400**
E. BASE AND PAVING	
1. AGGREGATE BASE (1720 sq. yd. of 8" @ $8)	$13,760
2. SURFACE AGGREGATE (100 tons @ $15)	$1,500
3. ASPHALT PAVING	
a. Surface (190 tons @ $35)	$6,650
b. Binder (150 tons @ $40)	$6,000
c. Tack Coat (100 gals @ $1)	$100
SUBTOTAL E-3:	$12,750
4. CONCRETE APPROACH SLABS (260 SY @ $105 /SY)	$27,300
SUBTOTAL E:	**$55,310**

F. LUMP ITEMS	
1. TRAFFIC CONTROL	$30,000
2. CLEARING AND GRUBBING	$25,000
3. GRASSING	$10,000
4. EROSION CONTROL	$10,000
5. TEMP. EROSION CONTROL	$25,000
6. REMOVE EXISTING BRIDGE	$10,000
SUBTOTAL F:	**$110,000**

G. MISCELLANEOUS	
1. SIGNING	
a. SIGNS	$0
b. POSTS	$0
SUBTOTAL G-1:	$0
2. STRIPING	
a. 5 IN WHITE SOLID (1400 FT @ $0.75)	$1,050
b. 5 IN YELLOW SOLID (1400 FT @ $0.75)	$1,050
SUBTOTAL G-2:	$2,100
3. GUARDRAIL	
a. TYPE W (800 FT @ $12)	$9,600
c. TYPE 12 ANCHORS (2 @ $1600)	$3,200
d. TYPE 1 ANCHORS (2 @ $450)	$900
SUBTOTAL G-3:	$13,700
SUBTOTAL G:	**$15,800**

ESTIMATE SUMMARY – Alternate 3		
A. RIGHT-OF-WAY		$105,000
B. REIMBURSABLE UTILITIES		$50,000
CONSTRUCTION		
C. MAJOR STRUCTURES		$200,000
D. GRADING AND DRAINAGE		$39,400
E. BASE AND PAVING		$55,310
F. LUMP ITEMS		$110,000
G. MISCELLANEOUS		$15,800
SUBTOTAL: CONSTRUCTION COST		*$420,510*
INFLATION (5% PER YEAR)		*$43,102*
NUMBER OF YEARS	2	
E. & C. (10%)		*$46,361*
TOTAL CONSTRUCTION COST		**$509,973**
GRAND TOTAL PROJECT COST – Alternate 3		**$664,973**

NOTICE OF LOCATION AND DESIGN APPROVAL

Project No. BRZLB-121(22), Fulton County
P.I. No. 771275

Notice is herby given in compliance with Georgia code 22-2-109 that the Georgia Department of Transportation has approved the Location and Design of this project.

The date of location approval is JUNE 2, 2004.

The project consists of improvements of Cochran Mill Road (CR 1392) over Pea Creek, located in Fulton County, Georgia Militia Districts 2 and 3.

The improvement project includes replacing the existing bridge over Pea Creek.

Drawings or maps or plats of the proposed project, as approved, are on file and are available for inspection at the Georgia Department of Transportation.

Kevin Vinson
kevin.vinson@dot.state.ga.us
940 Virginia Avenue
Hapeville, GA 30354
(404) 559-6655

Any interested party may obtain a copy of the drawings or maps or plats or portions thereof by paying a nominal fee and requesting in writing to:

Buddy Gratton, P.E.
District Seven Engineer
buddy.gratton@dot.state.ga.us
5025 New Peachtree Road
Chamblee, Georgia 30341
(770) 986-1011

Any written requests or communication in reference to this project or notice SHOULD include Project and P.I. Numbers as noted at the top of this notice.

PMT
Consultants
JOINT VENTURE

5665 New Northside Drive, N.W.
Suite 400
Atlanta, Georgia 30328
Phone 770/933-0280 Fax 770/933-1920

CONCEPT TEAM MEETING MINUTES

TO: *Gerald Ford – GDOT District 7*

FROM: *Scott Dubord - PMT*

CC: *Ron Morris – PMT*
Chris Woods – GDOT District 7
Ernest Slaughter – Fulton County

SUBJ: ***Cochran Mill Road over Pea Creek***
BRZLB-121(22), PI 771275

DATE: *March 5, 2004*

A meeting was held on March 5, 2004 at 10:00 AM in the conference room at GDOT's District 7 Pre-Construction Office. The following is a list of attendees:

Gerald Ford	**GDOT-Dist 7**	**Harry Graham**	**GDOT– Dist 7**
Chris Woods	**GDOT-Dist 7**	**Daniel McDuff**	**PMT**
Pam Black	**GDOT-D7 R/W**	**Scott Dubord**	**PMT**
Wade Woodard	**GDOT-D7 Utils**	**Ernest Slaughter**	**Fulton Co.**
Robert Crawford	**GDOT- Dist 7**	**Lisa Favors**	**OEL**

The meeting was held as the concept team meeting for the Cochran Mill Road over Pea Creek bridge replacement project in Fulton County. PMT is the transportation program managers for the Fulton County Public Works Department and will be managing this particular job.

The following items were discussed:

- Gerald Ford, GDOT District 7 Project Manager, opened the meeting with introductions of key staff and a brief overview of the project and concept report, prepared by PMT.
- GDOT asked that the concept report cover sheet include the county route number and omit the signature line for the State Consultant Design Engineer.
- Harry Graham with GDOT District 7 asked that an inset of a broader scope of the area be added to the location sketch shown on page 2.
- Need and Purpose statement:
    - GDOT asked that the ADT be updated for the actual design year. The concept report current shows a 1999 ADT (based on counts) and projected traffic for 2005 and 2025. Ernest Slaughter will verify with Fulton County Traffic Ops whether more recent

counts exist in their database. Until then, the 1999 ADT will be deleted from the report.

- Bobby Crawford mentioned that the project was programmed for 2005 construction out of Q11 funds (20% County match). The construction dollars available will be increased from $129k once the concept is approved. No R/W date has been programmed (locally funded). The Team recommended that the construction date be moved to 2006.
- Currently the project is designed to be a quadruple 10'x10' box culvert. This is based on the hydro report prepared in 1997 by another consultant. Based on a recent site visit, GDOT asked that a bridge alternate be considered as the preferred alternate. Mr. Slaughter asked whether the concept could be left as-is until a definitive answer about bridge vs. culvert could be made by the hydraulics report currently underway. The alternate cost estimates (not included in the report) are extremely close when comparing a bridge vs. a culvert of this size. However, it was pointed out by Chris Woods that Cochran Mill Road is considered to be on the South Fulton Scenic By-Way. He also noted that Paul Liles had sent out a directive back in 2001 that bridges along these scenic byways have "context-sensitive designs", in particular, to include features such as a Kansas Corral Rail.
- Lisa Favors with OEL said that a bridge would cause fewer environmental impacts, although Fish & Wildlife would be involved regardless {Postscript, there is a current COE 404 permit that was signed in Nov. 2003 for this project. This permit was based on 1997 wetland delineation information}. A Conspan bridge option was discussed and Ms. Favors said she would have to check how this alternate would be considered vs. a standard bridge.
- The Design Team decided that the concept report would be modified to show a bridge as the preferred alternate in an effort to avoid delaying the environmental investigations with a concept revision.

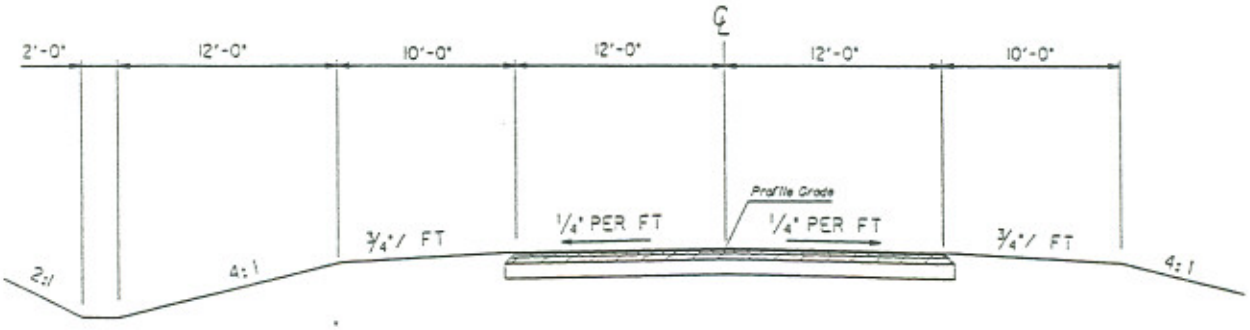
- Proposed design features:
  - GDOT suggested that the proposed R/W width at the bridge be changed to 100' from 120'.
  - The easements are to be changed from temporary to permanent.
  - The existing plans (prepared by Delon Hampton under a County contract) suggest that there are really three (3) parcels rather than two (2), even though only two parcel numbers are present. PMT to verify.
  - The structure type should be changed to a concrete bridge structure, with the size to be determined after the hydro is complete. Retaining walls may need to be considered to stay off the live streams adjacent to the east side of the roadway.
  - Ms. Favors said that "Streams and wetlands" should be added under the Environmental concerns heading.
  - PMT should have their preliminary hydro analysis complete by the end of next week (3/12/04). The updated 100 year flood elevation will determine how much the road elevation will change, thereby dictating if or where the road may need to be relocated in order to minimize stream impacts, or if walls will be proposed.
  - Wade Woodard verified the utilities listed in the concept report to be accurate.

- Project responsibilities: The contractor will be proving the necessary detours, not the County as previously shown in the report.
- Coordination:
  - The concept meeting date was changed to 3/5/04.
  - Bobby Crawford asked that a note be made for a future detour meeting to be held. This will be noted under "Other coordination to date".
- Scheduling:
  - The environmental process duration was changed to 18 months from 12 months.
  - "Potential environmental concerns" was added under "List of other major item that will affect the project schedule".
- Alternates considered: The Bridge alternate along the existing alignment was made the preferred alternate. It was noted by GDOT that the cost estimates for all considered alternates are to be included in the concept report.
- Programmed dates: The construction program date should be shifted to 2006 as previously discussed.
- The FEMA base flood elevations should be added to the concept report upon completion of the hydro study.
- Typical sections and the bridge inventory are to be added to the concept report.
- Mr. Woodard asked the Team to add the City of Atlanta Water as a contract item. Mr. Slaughter said he would check the LGPA for accommodations to the City.

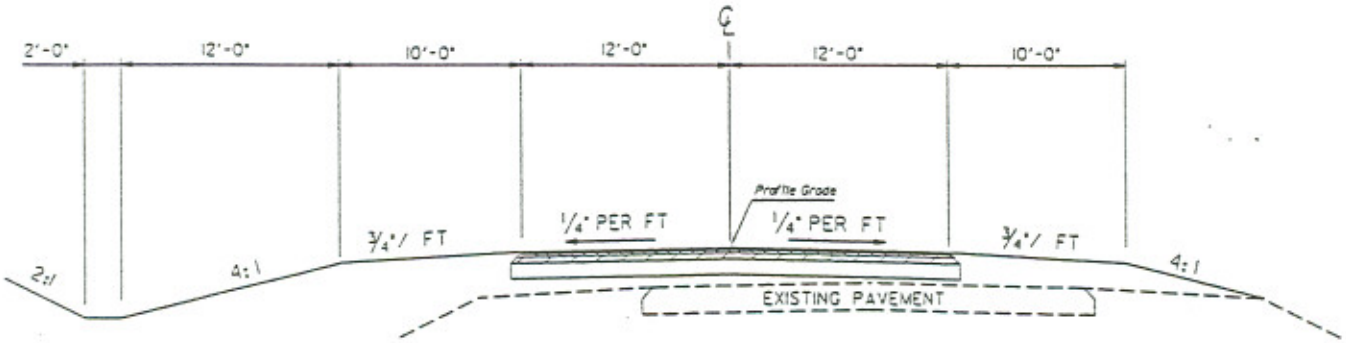
This document represents PMT's interpretation of the meeting. Please contact the project manager if you have any questions.

Sincerely,

Scott M. Dubord, P.E.
PMT Project Manager



TYPICAL SECTION



TYPICAL SECTION

COCHRAN MILL RD. OVER PEA CREEK
PROJECT NO. BRZLB-121(22)
P.I. NO. 771275
FULTON CO.

BRIDGE INVENTORY DATA LISTING GEORGIA DEPARTMENT OF TRANSPORTATION

Structure ID: 121-5114-0 | Fulton Area 9 | SUFF. RATING 21.33

Location & Geography

	Structure I.D.No:	121-5114-0	*
200	Bridge Information	07	*
6A	Feature Int:	PEA CREEK	*
6B	Critical Bridge:	0	
7A	Route Number Carried:	CR01392	*
7B	Facility Carried:	COCHRAN MILL ROAD	
9	Location:	7 MI NW OF PALMETTO	
2	DOT District:	7	
207	Year Photo:	1998	*
91	Inspection Frequency:	24 Date: 02/24/2003	*
92A	Fract Crit Insp Freq:	00 Date: 02/01/1901	*
92B	Underwater Insp Freq:	00 Date: 02/01/1901	*
92C	Other Spc. Insp Freq:	00 Date: 02/01/1901	*
4	Place Code:	00000	
5	Inventory Route (O/U):	1	
	Type:	4	
	Designation:	1	
	Number:	01392	
	Direction:	0	
16	Latitude: 33-36.6	MMS Prefix: 0	
17	Longitude 84-42.5	MMS Suffix: 0 MP: 0.00	
98	Border Bridge: 000	%Shared: 00	
99	ID Number:	000000000000000	
100	STRAHNET:	0	*
12	Base Highway Network:	1	
13A	LRS Inventory Route:	1212139200	
13B	Sub Inventory Route:	0	
101	Parallel Structure:	N	
102	Direction of Traffic	2	
264	Road Inventory Mile Post:	002.14	
208	Inspection Area: 09	Initials: JMC	
	Engineer's Initial:	sgm	

Location I.D. No.: 121-01392X-006.02N

104	Highway System:	0	
26	Functional Classification:	08	
204	Federal Route Type:	0 No.: 00000	
105	Federal Lands Highway:	0	
110	Truck Route:	0	
206	School Bus Route:	0	
217	Benchmark Elevation:	0000.00	
218	Datum:	0	
19	Bypass Length:	06	
20	Toll:	3	
21	Maintenance:	02	
22	Owner:	02	
31	Design Load:	0	
37	Historical Significance:	5	
205	Congressional District:	05	
27	Year Constructed:	1935	
106	Year Reconstructed:	0000	
33	Bridge Median:	0	
34	Skew:	00	
35	Structred Flared:	0	
38	Navigation Control:	0	
213	Special Steel Design:	0	
267	Type of Paint:	1	
42	Type of Service on:	1	*
		5	
214	Movable Bridge:	0	
203	Type Bridge:	M-A-M-I	
259	Pile Encasement:	3	
43	Structure Type Main:	3 02	*
45	No. Spans Main:	001	
44	Structure Type Appr:	0 00	
46	No. Spans Appr:	0000	
226	Bridge Curve Horz:	0 Vert: 0	
111	Pier Protection:	0	
107	Deck Structure Type:	8	
108	Wearing Surface Type:	6	
	M	0	
	F	0	

Signs & Attachments

225	Expansion Joint Type:	00	
242	Deck Drains:	0	
243	Parapet Location:	0	
	Height:	0.00	
	Width:	0.00	
238	Curb:	0.00	0
239	Handrail:	2	2
240	Median Barrier Rail:	0	*
241	Bridge Median Height:	0.00	
	Width:	0.00	
230	Guardrail Loc Dir Rear:	0	*
	Fwrd:	0	
	Oppo Dir Rear:	0	
	Fwrd:	0	
244	Approach Slab:	0	
224	Retaining Wall:	4	
233	Posted Speed Limit:	45	
236	Warning Sign:	0	
234	Delineator:	0	
235	Hazard Boards:	1	
237	Utilities Gas:	00	
	W	00	
	Ele	00	
	Telephone:	00	
	Sc	00	
247	Lighting Street:	0	
	Naviagtion:	0	
	Aerial:	0	
248	County Continuity No.:	00	*

ogramming Data

01 Project No.: COUNTY DESIGN
02 Plans Available: 0
49 Prop. Proj. No. BRZLB-121 (22)
50 Approval Status: 0000
51 P.I. No.: 771275-
52 Contract Date: 02/01/2002
60 Seismic No.: 00000
75 Type Work: 31 1
94 Bridge Imp. Cost: $ 32
95 Roadway Imp. Cost: $ 36
96 Total Imp Cost: $ 78
76 Imp. Length: 000240
97 Imp. Year: 1990
14 Future ADT: 001455 Year: 2021

ydraulic Data

215 Waterway Data
Highwater Elev.: 0000.0 Year: 1900
Avg. Streambed Elev.: 0000.0 Freq.: 00
Drainage Area: 00000
Area Of Opening: 000000
113 Scour Critical: U
216 Water Depth: 01.0 Br. Height: 11.5
222 Slope Protection: 0
221 Spur Dikes Rear: 0 Fwrd: 0
219 Fender System: 0
220 Dolphin: 0
223 Culvert Cover: 000
Type: 0
No. Barrels: 0
Width: 0.00 Height: 0.00
Length: 0 Apron: 0
265 U/W Insp. Area: 0 Diver: ZZZ

Location I.D. No.: 121-01392X-006.02N

Measurements

* 29 ADT: 000970 Year: 2001
109 % Trucks: 7
* 28 Lanes On: 02 Under: 00
210 No. Tracks On: 00 Under: 00
* 48 Max. Span Length: 0029
* 49 Structure Length: 29
51 Br. Rwdy. Width: 19.50
52 Deck Width: 19.90
* 47 Tot. Horz. Cl: 19.50
50 Curb/Sdewlk Width 0.00/0.00
32 Approach Rdwy Width: 020
* 229 Shoulder Width:
Rear Lt: 6.00 Type: 8 Rt: 6.00
Fwrd Lt: 6.00 Type: 8 Rt: 6.00
Pavement Width:
Rear: 20.00 Type: 2
Fwrd: 20.00 Type: 2
Intersection Rear: 0 Fwrd: 0
36 Safety Features Br. Rail: 3
Transition: 0
App. G. Rail: 0
App. Rail End: 0
53 Minimum Cl.Over: 99 ' 99 "
Under: N 00 ' 00 "
* 228 Min. Vertical Cl
Act. Odm Dir: 99 ' 99 "
Oppo. Dir: 99 ' 99 "
Posted Odm. Dir: 00 ' 00 "
Oppo. Dir: 00 ' 00 "
55 Lateral.Undercl. Rt: N 99.90
56 Lateral Undercl. Lt: 0.00
* 10 Max Min Vert Cl: 99 ' 99 " Dir: 0
39 Nav Vert Cl: 000 Horz: 0000
116 Nav Vert Cl Closed: 000
245 Deck Thickness Main: 0.00
Deck Thick Approach: 0.00
246 Overlay Thickness: 3.00
212 Year Last Painted: Sup: 1935 Sub: 0000

Ratings

65 Inventory Rating Method: 2
63 Inventory Rating Method: 2
66 Inventory Type: 2 Rating: 09
64 Operating Type: 2 Rating: 13
231 Calculated Loads
H-Modified: 06 1
HS-Modified: 11 1
Type 3: 13 1
Type 3s2: 19 1
Timber: 15 1
Piggyback: 00 0
261 H Inventory Rating: 05
262 H Operating Rating: 07
67 Structural Evaluation: 2
58 Deck Condition: 4
59 Superstructure Condition: 5
* 227 Collision Damage: 0
60A Substructure Condition: 5
60B Scour Condition: 6
60C Underwater Condition: N
71 Waterway Adequacy: 9
61 Channel Protection Cond: 7
68 Deck Geometry: 2
69 UnderClr. Horz/Vert: N
72 Appr. Alignment: 8
62 Culvert: N

Posting Data

70 Bridge Posting Required: 0
41 Struct Open, Posted, Cl: B
* 103 Temporary Structure: 0
232 Posted Load -Modified: 00
HS-Modified: 00
Type 3: 00
Type3s2: 00
Timber: 00
Piggyback: 00
253 Notification Date 10/12/2001
253 Fed Notify Date: 01/02/2002 0

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

Project Concept Report

Project Number: BRZLB-121(22)
County: Fulton
P. I. Number: 771275

Federal Route Number: N/A
State Route Number: N/A
County Route Number: 1392

See Sheet 2 for Project Location Sketch

Bridge Replacement: Cochran Mill Rd. (CR 1392) over Pea Creek

Recommended for approval:

DATE: 4/30/04 _____ Project Manager

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

DATE: _____ State Transportation Planning Administrator

DATE: _____ Office of Financial Planning Administrator

DATE: _____ State Environmental/Location Engineer

DATE: _____ State Traffic Safety Design Engineer

DATE: 4/28/04 _____ District Engineer

DATE: _____ Project Review Engineer

DATE: 5/13/04 _____ State Bridge & Structural Design Engineer

27 April, 2004

State of Georgia
Department of Transportation

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

Project Concept Report

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DATE: _____ _____ Office of Financial Planning Administrator

DATE: _____ _____ State Environmental/Location Engineer

DATE: _____ _____ State Traffic Safety Design Engineer

DATE: 4/28/04 _____ District Engineer

DATE: _____ _____ Project Review Engineer

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27 April, 2004

State of Georgia
Department of Transportation

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

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DATE: _____ Office of Financial Planning Administrator

DATE: 5.21.04 _____ State Environmental/Location Engineer

DATE: _____ State Traffic Safety Design Engineer

DATE: 4/28/04 _____ District Engineer

DATE: _____ Project Review Engineer

DATE: _____ State Bridge & Structural Design Engineer

Department of Transportation
State of Georgia

INTERDEPARTMENTAL CORRESPONDENCE

File: BRZLB-121(22), Fulton County
P.I. Nos. 771275

Office: Traffic Safety & Design
Atlanta, Georgia
Date: May 14, 2004

From: PMA Phillip M. Allen, State Traffic Safety and Design Engineer

To: Meg Pirkle, Assistant Director of Preconstruction

Subject: Project Concept Report Review

We have reviewed the above referenced concept report for the replacement of a structurally deficient bridge on CR 1392 over Pea Creek in Fulton County.

The Office of Traffic Safety & Design finds this report satisfactory for approval because it will improve safety and traffic operations within this area.

PMA/sz

Attachment (signature page)

RECEIVED
MAY 24 2004

Cc: Harvey Keepler, State Environment/Location Engineer
Buddy Gratton, District Engineer
Attn: Chris Woods
David Mulling, State Review Engineer, w/ attachment
Paul Liles, State Bridge & Structural Design Engineer
Joe Palladi, State Transportation Planning Administrator
General Files
Office Files

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

Project Concept Report

Project Number: BRZLB-121(22)
County: Fulton
P. I. Number: 771275

Federal Route Number: N/A
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DATE: _____ Office of Financial Planning Administrator

DATE: _____ State Environmental/Location Engineer

DATE: 5-18-04 _____ State Traffic Safety Design Engineer

DATE: 4/28/04 _____ District Engineer

DATE: _____ Project Review Engineer

DATE: _____ State Bridge & Structural Design Engineer

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

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County: Fulton
P. I. Number: 771275

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See Sheet 2 for Project Location Sketch

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DATE: _____ State Transportation Planning Administrator

DATE: _____ Office of Financial Planning Administrator

DATE: _____ State Environmental/Location Engineer

DATE: _____ State Traffic Safety Design Engineer

DATE: 4/28/04 _____ District Engineer

DATE: 5/24/04 _____ Project Review Engineer

DATE: _____ State Bridge & Structural Design Engineer