

ORIGINAL TO GENERAL FILES

D.O.T. 66

**DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA**

**INTERDEPARTMENT CORRESPONDENCE**

**FILE** BRZLB-057(17) Cherokee County **OFFICE** Preconstruction  
P. I. No. 671951  
*CWH* **DATE** March 2, 2000  
**FROM** C. Wayne Hutto, Assistant Director of Preconstruction  
**TO** SEE DISTRIBUTION

**SUBJECT PROJECT CONCEPT REPORT APPROVAL**

Attached for your files is the approval for subject project.

CWH/cj

Attachment

**DISTRIBUTION:**

Tom Turner  
David Mulling  
David Studstill (ATTN: Harvey Keeper)  
Jerry Hobbs  
Herman Griffin  
Georgene Geary (ATTN: Michael Henry)  
Marion Waters  
Marta Rosen  
Paul Liles  
Don Mills  
James Hughes  
Jim Kennerly

**DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA**

**INTERDEPARTMENT CORRESPONDENCE**

**FILE** BRZLB-057(17)Cherokee County **OFFICE** Preconstruction  
P.I. No. 671951 **DATE** February 10, 2000

**FROM**   
Thomas L. Turner, P.E., Director of Preconstruction

**TO** Wayne Shackelford, Commissioner

**SUBJECT** PROJECT CONCEPT REPORT

This project is the replacement of a narrow and structurally deficient bridge on CR 107/Howell Bridge Road over Sharp Mountain Creek, 2.0 miles southwest of Ball Ground, Georgia. The existing bridge is 100' x 22' with a sufficiency rating of 16. The existing approaches consist of two, 10' lanes with 2-4' rural shoulders on 40' of existing right-of-way. The base year traffic (2005) is 800 VPD and the design year traffic (2025) is 1,600 VPD. The posted speed and the design speed are 35 MPH.

The construction proposes to replace the existing bridge over Sharp Mountain Creek with a new 200' x 38' bridge at the existing bridge site. The approaches will consist of two, 12' lanes with 6' rural shoulders on 62' minimum right-of-way plus easements. This roadway will be closed during construction and traffic will be detoured. Cherokee County will be responsible for the signing and maintenance of detour routes.

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

The estimated costs for this project are:

	<u>PROPOSED</u>	<u>APPROVED</u>	<u>PROG DATE</u>	<u>LET DATE</u>
Construction (includes E&C and inflation)	\$1,089,000	\$597,000	2003	01-07
Right-of-Way & Utilities*	Local	Local		

Wayne Shackelford

Page 2

BRSLB-057(17) Cherokee

February 10, 2000

\*Cherokee County signed LGPA on 8-27-99 to be responsible for right-of-way, utilities, and detours.

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

TLT:JDQ/cj

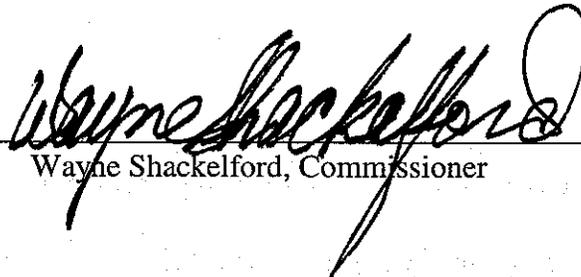
Attachment

CONCUR



Frank L. Danchetz, P.E., Chief Engineer

APPROVE



Wayne Shackelford, Commissioner

**DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA**

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**INTERDEPARTMENTAL CORRESPONDENCE**

**FILE:** BRZLB-057(17) Cherokee  
P.I. Number 671951

**OFFICE:** Atlanta, Georgia

**DATE:** February 7, 2000

**FROM:** David Mulling, Project Review Engineer *DM*

**TO:** Wayne Hutto, Assistant Director of Pre-construction

**SUBJECT: CONCEPT REPORT**

We have reviewed the concept report submitted February 7, 2000, and have the following comments:

1. The sufficiency rating of the existing bridge was not included in the report. The sufficiency rating of 16.0 qualifies the structure for replacement with bridge replacement funds.
2. Since federal funds are being used, the concept report should show the project as "Exempt" from full oversight by FHWA instead of as "N/A".
3. A square foot cost of \$60 was applied to the proposed 200 feet long by 38 feet wide bridge to adjust the estimated bridge cost from \$1,140,000 to \$500,000. This adjustment is reflected in the cost for construction shown below.

The costs for the project are:

Construction	\$900,000
Inflation	\$ 90,000
E&C	\$ 99,000
Reimbursable Utilities	\$ 20,000
Right of Way	\$ 40,000

DTM

c: Jim Hullett

DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA  
OFFICE OF ROAD AND AIRPORT DESIGN

PROJECT CONCEPT REPORT

BRZLB 057 (17) CHEROKEE COUNTY

P.I. NUMBER 671951

Federal Route No.: N/A

Date of Report: Jan. 26, 2000

State Route No.: N/A

RECOMMENDATION FOR APPROVAL

1-25-00

Date

*James W. Hullett Jr.*  
Project Manager

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

Date

~~State Transportation Programming Engineer~~  
STATE TRANSPORTATION PLANNING ADM.

Date

State Environmental/Location Engineer

Date

State Road Design Engineer

1/26/00  
Date

*Charles Law*  
District Engineer

Date

Project Review Engineer

Date

State Traffic Operations Engineer

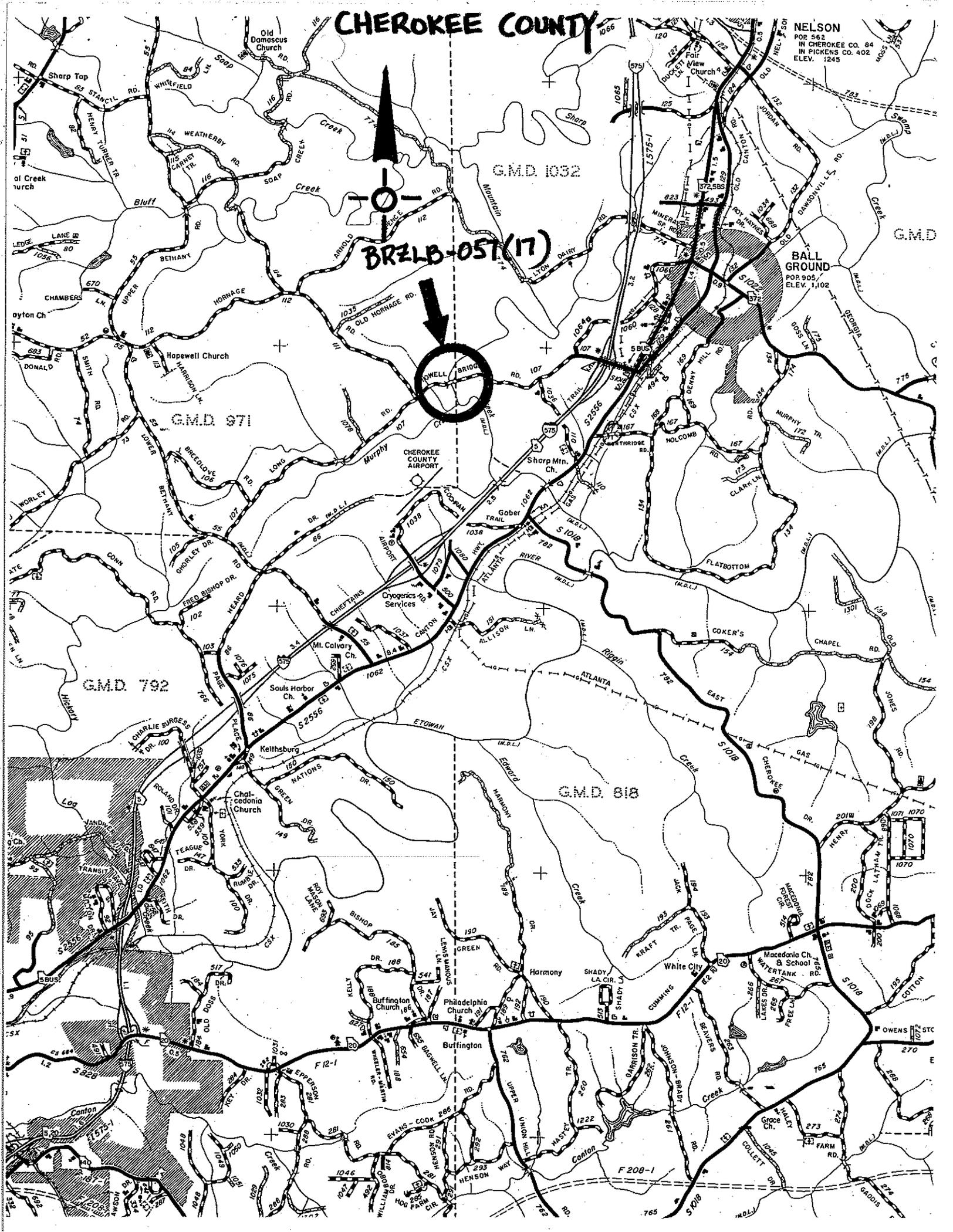
Date

State Bridge & Structural Engineer

# CHEROKEE COUNTY

NELSON  
POP 562  
IN CHEROKEE CO. 84  
IN PICKENS CO. 402  
ELEV. 1245

BRZLB-05(17)



## PROJECT CONCEPT REPORT

PROJECT NUMBER: BRZLB 057 (17) Cherokee County

### PROJECT LOCATION AND DESCRIPTION

*BRIDGE REPLACEMENT ON CR 107/HOWELL BRIDGE RD OVER SHARP MOUNTAIN CREEK.*

PROJECT LENGTH: 0.17 MILES

### TRAFFIC

#### CURRENT

#### PROJECTED

YEAR  
2005

AADT  
800

YEAR  
2025

AADT  
1600

#### PDP CLASSIFICATION

#### FUNCTIONAL CLASSIFICATION

MINOR

Rural Minor Collector (Non Federal Aid)

FULL OVERSIGHT ( )

EXEMPT (X)

N/A ( )

### NEED AND PURPOSE

The existing bridge is load limited, plus, the existing alignment is not sufficient for existing and proposed traffic.

### EXISTING ROADWAY

TYPICAL SECTION: 2-10 ft. lanes, with 2-4 ft. shoulders.		RIGHT-OF-WAY WIDTH 40 ft.
POSTED SPEED	MAXIMUM DEGREE OF CURVE	MAXIMUM GRADE
35 MPH	20	10 %

**MAJOR STRUCTURES**

FEATURES INTERSECTED/TYPE	LENGTH	WIDTH	PRIORITY RATING	SUFF. RATING
057-5010-0	100 ft.	22 ft.		16

**HAZARD INDEX: N/A**

**PROPOSED ROADWAY**

**TYPICAL SECTION:** 2 – 12 ft. lanes, with 7 ft. shoulders

DESIGN SPEED	MAXIMUM DEGREE OF CURVE		MAXIMUM GRADE	
35 MPH	ALLOWABLE	21	ALLOWABLE	10 %
	PROPOSED	16-30	PROPOSED	5.2 %

**PROPOSED MAJOR STRUCTURES**

FEATURES INTERSECTED/TYPE	LENGTH	WIDTH
Concrete and steel bridge	200 ft.	38 ft.

**PROPOSED RIGHT-OF-WAY**

RIGHT-OF-WAY WIDTH	PARCELS IMPACTED	DISPLACEMENTS		
62 ft. plus easements	5	RES.:0	BUS.0	M.H.:0

**TYPE OF ACCESS CONTROL:** Controlled by the County.

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**COORDINATION AND SCHEDULING**

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**CONCEPT TEAM MEETING DATE: May, 1997**

**CONFORMS TO TIP/STIP? Yes**

**MEETS LOGICAL TERMINI REQUIREMENTS? Yes**

**P.A.R. MEETING: N/R**

**PERMITS REQUIRED: COE 404**

**LEVEL OF PUBLIC INVOLVEMENT: None**

**TIME SAVING PROCEDURES APPROPRIATE: Yes**

**SCHEDULING CONSIDERATIONS:**

<b>TIME TO COMPLETE ENVIRONMENTAL:</b>	<b>3 MONTHS</b>
<b>TIME TO COMPLETE PRELIMINARY RD/RW PLANS:</b>	<b>3 MONTHS</b>
<b>TIME TO COMPLETE 404 PERMIT:</b>	<b>3 MONTHS</b>
<b>TIME TO COMPLETE FINAL CONSTRUCTION PLANS</b>	<b>3 MONTHS</b>
<b>TIME TO BUY RIGHTS-OF WAY:</b>	<b>6 MONTHS</b>

**OTHER PROJECTS IN THE AREA: None with compatible let dates.**

**LOCAL GOVERNMENT COMMITMENTS: Preliminary Engineering, Right of Way, Utilities, environmental clearance, necessary permits.**

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**MISCELLANEOUS**

<b>TRAFFIC CONTROL DURING CONSTRUCTION:</b>	Road to be closed during construction.
<b>LEVEL OF ENVIRONMENTAL ANALYSIS:</b>	Categorical Exclusion
<b>UNDERGROUND STORAGE TANKS:</b>	None anticipated.
<b>HAZARDOUS WASTE SITES:</b>	None anticipated.

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**DESIGN VARIATIONS REQUESTED**

	<b>YES</b>	<b>NO</b>	<b>UNDETERMINED</b>
<b>SUBST HORIZ ALIGNMENT</b>	( )	(X)	( )
<b>SUBST ROADWAY WIDTH</b>	( )	(X)	( )
<b>SUBST SHOULDER WIDTH</b>	( )	(X)	( )
<b>SUBST VERTICAL GRADES</b>	( )	(X)	( )
<b>SUBST CROSS SLOPES</b>	( )	(X)	( )
<b>SUBST STOPPING SIGHT DIST</b>	( )	(X)	( )
<b>SUBST SUPERELEV RATES</b>	( )	(X)	( )
<b>SUBST HORIZONTAL CLEARANCE</b>	( )	(X)	( )
<b>SUBST SPEED DESIGN</b>	( )	(X)	( )
<b>SUBST VERTICAL CLEARANCE</b>	( )	(X)	( )
<b>SUBST BRIDGE WIDTH</b>	( )	(X)	( )
<b>SUBST BR STRUCT CAPACITY</b>	( )	(X)	( )

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**ALTERNATIVES CONSIDERED**

1. No Build.

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**ESTIMATED COST**

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<b>CONSTRUCTION:</b>	1,526,240.00	<b>RIGHT-OF-WAY:</b>	40,000.00
<b>E &amp; C (10%):</b>	152,624.00	<b>ACQUIRED BY:</b>	Cherokee County
<b>INFLATION:</b>	<u>152,624.00</u>	<b>UTILITIES:</b>	20,000.00
<b>( 2 yrs at 5% per yr):</b>		<b>ADJUSTED BY:</b>	Cherokee County or owners
<b>TOTAL CONS'T COST:</b>	1,831,488.00		

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**COMMENTS**

This project began as a State Aid Project through the State Aid Office. Since its inception, the Commissioner has agreed to place this project in the construction work program, if Cherokee County would prepare plans. Cherokee County has prepared plans in accordance with D.O.T. policy and AASHTO.

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**ATTACHMENTS:** Typical Section  
Location and Design Approval  
Cost Estimate

**PREPARED BY:**

**Dennis Thompson**

PRELIMINARY COST ESTIMATE

PROJECT NUMBER: PRL0P-107(057)

COUNTY: CHEROKEE

DATE: 12/29/99

ESTIMATED LETTING DATE: 2001

PREPARED BY: TOMMIE GRAY

PROJECT LENGTH (MILES): 0.170 MILES

( ) PROGRAMMING PROCESS ( ) CONCEPT DEVELOPMENT ( ) DURING PROJECT DEV.

PROJECT COST	
<b>A. RIGHT-OF-WAY:</b>	
1. PROPERTY (LAND & EASEMENT)	\$ 40,000.00
2. DISPLACEMENTS; RES:0, BUS:0, M.H.:0	\$ 0
3. OTHER COST (ADM./COST, INFLATION)	\$ 0
SUBTOTAL:A	\$ 40,000.00
<b>B. REIMBURSABLE UTILITIES:</b>	
1. RAILROAD	\$ 0
2. TRANSMISSION LINES	\$ 0
3. SERVICES	\$ 20,000.00
SUBTOTAL:B	\$ 20,000.00
<b>C. CONSTRUCTION:</b>	
1. MAJOR STRUCTURES	\$ 0
a. RETAINING WALLS	\$ 0
b. BRIDGES	<del>\$ 1,140,000.00</del> 500,000
c. DETOURS BRIDGES	\$ 0
d. BOX CULVERTS	\$ 0
SUBTOTAL:C-1	<del>\$ 1,140,000.00</del> 500,000
2. GRADING AND DRAINAGE:	
a. EARTHWORK	\$ 300,000.00
b. DRAINAGE:	
1) Cross Drain Pipe (exclude box culverts)	\$ 0
2) Curb and Gutter	\$ 0
3) Longitudinal System(include catch basins)	\$ 3,000.00
SUBTOTAL:C-2	\$ 303,000.00
3. BASE AND PAVING:	
a. AGGREGATE BASE	\$ 12,920.00

PROJECT COST		
b. ASPHALT PAVING: Surface	\$ 9,240.00	
Binder	\$ 0	
Base	\$14,700.00	
SUBTOTAL:C-3.b		\$ 23,940.00
c. CONCRETE PAVING		\$ 0
d. OTHER		\$ 2,000.00
SUBTOTAL:C-3		\$ 56,860.00
4. LUMP ITEMS:		
a. TRAFFIC CONTROL		\$ 14,500.00
b. CLEARING AND GRUBBING		\$ 10,000.00
c. LANDSCAPING		\$ 0
d. EROSION CONTROL		\$ 18,000.00
e. DETOURS		\$ 0
SUBTOTAL:C-4		\$ 42,500.00
5. MISCELLANEOUS:		
a. LIGHTING		\$ 0
b. SIGNING - STRIPING - SIGNAL		\$ 3,000.00
c. GUARDRAIL		\$ 13,800.00
d. SIDEWALK - MEDIAN BARRIER		\$ 0
SUBTOTAL:C-5		\$ 16,800.00
6. SPECIAL FEATURES	SUBTOTAL:C-6	\$ 0

ESTIMATE SUMMARY

ESTIMATE SUMMARY		
A. RIGHT-OF-WAY		\$40,000.00
B. REIMBURSABLE UTILITIES		\$20,000.00
C. CONSTRUCTION		
1. MAJOR STRUCTURES	<del>\$1,140,000.00</del>	<b>\$ 500,000</b>
2. GRADING AND DRAINAGE	\$ 303,000.00	
3. BASE AND PAVING	\$ 23,940.00	
4. LUMP ITEMS	\$ 42,500.00	
5. MISCELLANEOUS	\$ 16,800.00	
6. SPECIAL FEATURES	\$ 0	
SUBTOTAL CONSTRUCTION COST	<del>\$1,528,240.00</del>	$  \begin{array}{r}  1,528,240 \\  - 440,000 \\  \hline  888,240  \end{array}  $ <b>900,000</b>
E. & C. (10%)	<del>\$ 152,624.00</del>	<b>90,000</b>
INFLATION (5% PER YEAR)	<del>\$ 452,624.00</del>	<b>99,000</b>
NUMBER OF YEARS	2	<b>≈ \$ 1,089,000</b>
TOTAL CONSTRUCTION COST		<del>\$1,831,488.00</del>
		<b>1,149,000</b>
GRAND TOTAL PROJECT COST		<del>\$1,831,488.00</del>

NOTICE OF LOCATION AND DESIGN APPROVAL

BRZLB 057 (17) Cherokee County  
P.I. 671951

Notice is hereby given in compliance with Georgia Code 22-2-109 that the Georgia Department of Transportation has approved the Location and Design of the above project.

This project consists of replacement of the existing bridge and approaches of the Howell Bridge Road over Sharp Mountain Creek in GMD 971, LL 971, 14th District Cherokee County, Georgia.

Date of Location and Design approval:

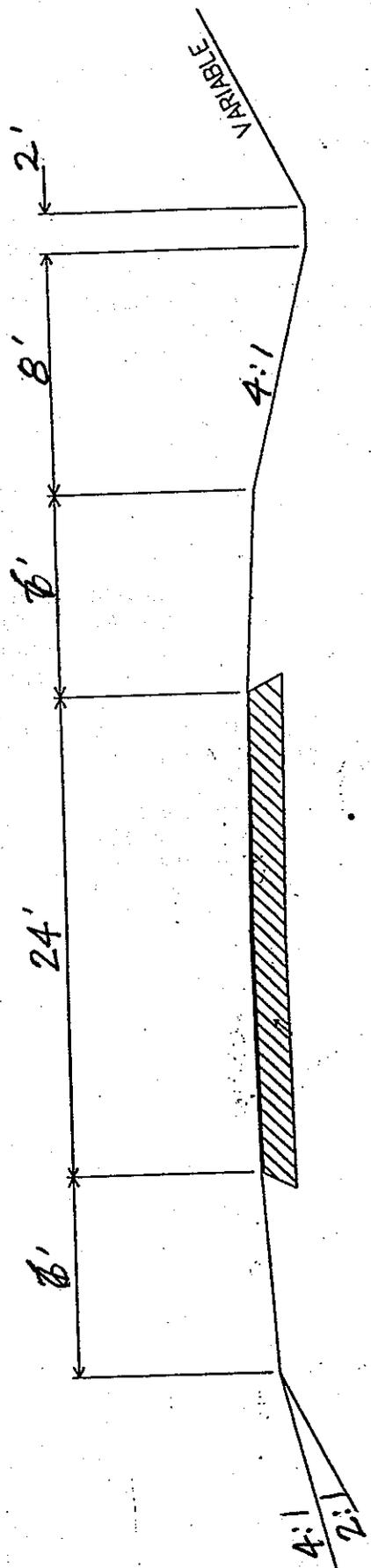
This project will replace the existing narrow, load limited bridge, and also improve the approach alignment.

Drawings or maps of the proposed project as approved are on file and are available for inspection at the Georgia Department of Transportation, 500 Joe Frank Harris Parkway, Cartersville, Georgia, 30120. Or, any interested party may obtain a copy of the drawings, maps of plats by writing to the Georgia Department of Transportation, No. 2 Capitol Square, Atlanta, Georgia, 30334, and paying a nominal cost therefor.

Any written request in reference to this Notice SHOULD include the PROJECT AND P.I. NUMBER AS NOTED AT THE TOP OF THIS NOTICE, and may be referred to:

James Hullett  
Preconstruction Office  
500 Joe Frank Harris Parkway  
Cartersville, Georgia 30120  
770-387-3619

TYPICAL SECTION

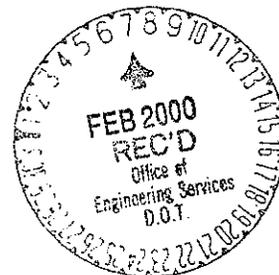


DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA  
OFFICE OF ROAD AND AIRPORT DESIGN

PROJECT CONCEPT REPORT

BRZLB 057 (17) CHEROKEE COUNTY

P.I. NUMBER 671951



Federal Route No.: N/A

Date of Report: Jan. 26, 2000

State Route No.: N/A

RECOMMENDATION FOR APPROVAL

1-25-00

Date

James W. Hullett Jr.  
Project Manager

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

Date

~~State Transportation Programming Engineer~~  
STATE TRANSPORTATION PLANNING AGEN.

Date

State Environmental/Location Engineer

Date

State Road Design Engineer

1/26/00

Date

Charles Jaw  
District Engineer

2/7/00

Date

C. J. Maly  
Project Review Engineer

Date

State Traffic Operations Engineer

Date

State Bridge & Structural Engineer

DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA  
OFFICE OF ROAD AND AIRPORT DESIGN

PROJECT CONCEPT REPORT

BRZLB 057 (17) CHEROKEE COUNTY

P.I. NUMBER 671951

Federal Route No.: N/A

Date of Report: Jan. 26, 2000

State Route No.: N/A

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\_\_\_\_\_  
Date

\_\_\_\_\_  
~~State Transportation Programming Engineer~~  
STATE TRANSPORTATION PLANNING ADM.

\_\_\_\_\_  
Date

\_\_\_\_\_  
State Environmental/Location Engineer

\_\_\_\_\_  
Date

\_\_\_\_\_  
State Road Design Engineer

1/26/00  
Date

*Charles Jaw*  
District Engineer

\_\_\_\_\_  
Date

\_\_\_\_\_  
Project Review Engineer

2/9/2000  
Date

*Marion Shalton*  
State Traffic Operations Engineer

\_\_\_\_\_  
Date

\_\_\_\_\_  
State Bridge & Structural Engineer

DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA  
OFFICE OF ROAD AND AIRPORT DESIGN

PROJECT CONCEPT REPORT

BRZLB 057 (17) CHEROKEE COUNTY

P.I. NUMBER 671951

Federal Route No.: N/A

Date of Report: Jan. 26, 2000

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RECOMMENDATION FOR APPROVAL

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2/9/00

Date

Marta V. Rosen  
~~State Transportation Programming Engineer~~  
STATE TRANSPORTATION PLANNING ADM.

Date

State Environmental/Location Engineer

Date

State Road Design Engineer

1/26/00

Date

Charles Law  
District Engineer

Date

Project Review Engineer

Date

State Traffic Operations Engineer

Date

State Bridge & Structural Engineer