

ORIGINAL TO GENERAL FILES

D.O.T. 66

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

FILE BRZLB-15(17) Bartow County **OFFICE** Preconstruction
P. I. No. 671225
DATE November 17, 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

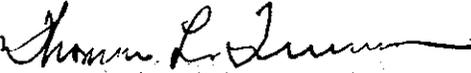
DISTRIBUTION:

Tom Turner
David Mulling
Harvey Keepler
Jerry Hobbs
Herman Griffin
Michael Henry
Marion Waters
Marta Rosen
Paul Liles
Jimmy Chambers (ATTN: Ted Cashin)
Kent Sager

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

FILE BRZLB-15(17) Bartow County **OFFICE** Preconstruction
P.I. No. 671225 **DATE** November 7, 2000

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

TO J. Tom Coleman, Jr., Commissioner

SUBJECT PROJECT CONCEPT REPORT

This project is the replacement of a functionally obsolete (one lane) bridge on Harden Bridge Road/CR 851 over Etowah River, 2.0 miles north of Euharlee, Georgia. The existing bridge is 350' x 15.8' and consists of a double truss unit with steel stringer floor beam, wood deck with a sufficiency rating of 25. Harden Bridge Road is a 18' bidirectional roadway with 4' rural shoulders on 50' of existing right-of-way. Traffic is projected to be 1,000 VPD and 1,400 VPD in the years 2005 and 2025 respectively. The proposed design speed is 45 MPH.

The construction proposes to relocate Harden Bridge Road/CR 851 east of its present location extending a total of 0.27 mile. The proposed new bridge will be 420' x 32' and will be located just east of the existing bridge structure. The relocated CR 851 will consist of two, 12' lanes with 6' rural shoulders on 140' of proposed right-of-way. Traffic will be maintained on the existing bridge while the proposed bridge is constructed.

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)	\$1,482,000	\$1,500,000	2003	02-07
Right-of-Way & Utilities*	LGPA	LGPA		

J. Tom Coleman, Jr.

Page 2

BRZLB-15(17) Bartow

November 7, 2000

*Bartow County signed LGPA on 7-26-99 for right-of-way, utilities, detours and 28% of construction costs.

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



J. Tom Coleman, Jr., Commissioner

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

PROJECT CONCEPT REPORT

BRZLB-15(17) BARTOW COUNTY

P.I. NUMBER 671225

Federal Route No.: N/A

Date of Report: 10-11-2000

State Route No.: N/A

RECOMMENDATION FOR APPROVAL

10-20-00

Date

Curts D. Com

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 Planning Administrator

Date

State Environmental/Location Engineer

Date

State Transportation Programming Engineer

10-20-00

Date

Ken L. Jeger

District Engineer

Date

Project Review Engineer

Date

State Traffic Operations Engineer

Date

State Bridge & Structural Engineer

PROJECT CONCEPT REPORT

PROJECT NUMBER:

PROJECT LOCATION AND DESCRIPTION

BRIDGE REPLACEMENT OVER ETOWAH RIVER ON HARDEN BRIDGR ROAD/ COUNTY ROAD 851

PROJECT LENGTH:

MILES 0.27

TRAFFIC

CURRENT

PROJECTED

YEAR
2005

AADT
1000

YEAR
2025

AADT
1400

PDP CLASSIFICATION

FUNCTIONAL CLASSIFICATION

MINOR

RURAL MINOR COLLECTOR

FULL OVERSIGHT ()

EXEMPT (x)

N/A ()

NEED AND PURPOSE

THE EXISTING STRUCTURE IS NARROW, STRUCTURALLY DEFICIENT, AND DOES NOT MEET CURRENT DESIGN STANDARDS. THIS STRUCTURE CARRIES A COUNTY ROAD THAT IS A COLLECTOR ROUTE AND A SCHOOL BUS ROUTE.

EXISTING ROADWAY

TYPICAL SECTION:	18 FT. ASPHALTIC PAVMENT WITH 4 FT. SHOULDERS	RIGHT-OF-WAY WIDTH 50 FT.
POSTED SPEED	MAXIMUM DEGREE OF CURVE	MAXIMUM GRADE
	18 ⁰	10%

MAJOR STRUCTURES

FEATURES INTERSECTED/TYPE	LENGTH	WIDTH	PRIORITY RATING	SUFF. RATING
EXISTING BRIDGE: DOUBLE STEEL THRU TRUSS UNIT WITH STEEL STRINGER FLOOR BEAMS, WOOD DECK WITH WOOD RUNNERS.	350 FT.	15.8 FT.		25.9

HAZARD INDEX:

PROPOSED ROADWAY

TYPICAL SECTION: 2-12 FT. LANES WITH 6 FT. SHOULDERS

DESIGN SPEED	MAXIMUM DEGREE OF CURVE		MAXIMUM GRADE	
45 MPH	ALLOWABLE	9° 45'	ALLOWABLE	7.5 %
	PROPOSED	5° 00'	PROPOSED	7 %

PROPOSED MAJOR STRUCTURES

FEATURES INTERSECTED/TYPE	LENGTH	WIDTH
CONCRETE BRIDGE	420 FT.	32 FT.

PROPOSED RIGHT-OF-WAY

RIGHT-OF-WAY WIDTH	PARCELS IMPACTED	DISPLACEMENTS		
140 FT.	3	RES.: 0	BUS.: 0	M.H.:0

TYPE OF ACCESS CONTROL: CONTROLLED BY BARTOW COUNTY

COORDINATION AND SCHEDULING

CONCEPT TEAM MEETING DATE: 10-03-2000

CONFORMS TO TIP/STIP? YES

MEETS LOGICAL TERMINI REQUIREMENTS? YES

P.A.R. MEETING: N/A

PERMITS REQUIRED: COE 404

LEVEL OF PUBLIC INVOLVEMENT: NONE

TIME SAVING PROCEDURES APPROPRIATE: YES

SCHEDULING CONSIDERATIONS:

TIME TO COMPLETE ENVIRONMENTAL: 6 MONTHS

TIME TO COMPLETE PRELIMINARY RD/RW PLANS: 6 MONTHS

TIME TO COMPLETE 404 PERMIT: 6 MONTHS

TIME TO COMPLETE FINAL CONSTRUCTION PLANS 6 MONTHS

TIME TO BUY RIGHTS-OF WAY: 12 MONTHS

OTHER PROJECTS IN THE AREA: N/A

LOCAL GOVERNMENT COMMITMENTS: R/W, UTILITIES AND DETOUR

MISCELLANEOUS

TRAFFIC CONTROL DURING CONSTRUCTION:

TRAFFIC WILL BE MAINTAINED ON EXISTING BRIDGE DURING CONSTRUCTION.

LEVEL OF ENVIRONMENTAL ANALYSIS: CE

UNDERGROUND STORAGE TANKS: NONE

HAZARDOUS WASTE SITES: NONE

DESIGN VARIATIONS REQUESTED

	YES	NO	UNDETERMINED
SUBST HORIZ ALIGNMENT	()	(X)	()
SUBST ROADWAY WIDTH	()	(X)	()

SUBST SHOULDER WIDTH	()	(X)	()
SUBST VERTICAL GRADES	()	(X)	()
SUBST CROSS SLOPES	()	(X)	()
SUBST STOPPING SIGHT DIST	()	(X)	()
SUBST SUPERELEV RATES	()	(X)	()
SUBST HORIZONTAL CLEARANCE	()	(X)	()
SUBST SPEED DESIGN	()	(X)	()
SUBST VERTICAL CLEARANCE	()	(X)	()
SUBST BRIDGE WIDTH	()	(X)	()
SUBST BR STRUCT CAPACITY	()	(X)	()

ALTERNATIVES CONSIDERED

1. No Build.

ESTIMATED COST

CONSTRUCTION:	\$1234600.00	RIGHT-OF-WAY:	LGPA
E & C (10%):	123460.00	ACQUIRED BY:	LOCAL GOVERNMENT
INFLATION:	12460.00	UTILITIES:	LGPA
(2 yrs at 5% per yr):		ADJUSTED BY:	OWNERS
TOTAL CONS'T COST:	\$1481520.00		

COMMENTS

**ATTACHMENTS: TYPICAL SECTION
 COST ESTIMATE
 NOTICE OF LOCATION AND DESIGN APPROVAL
 REGULATED FLOODPLAIN MAP
 LOCAL GOVERNMENT PROJECT AGREEMENT
 CONCEPT MEETING NOTES**

PREPARED BY: WILLIAM M. DARBY

PRELIMINARY COST ESTIMATE

PROJECT NUMBER: BRZLB-15(17)

COUNTY: BARTOW

DATE:

ESTIMATED LETTING DATE: JULY, 2002

PREPARED BY: CURTIS DEWAYNE COMER

PROJECT LENGTH (MILES): 0.27 MILES

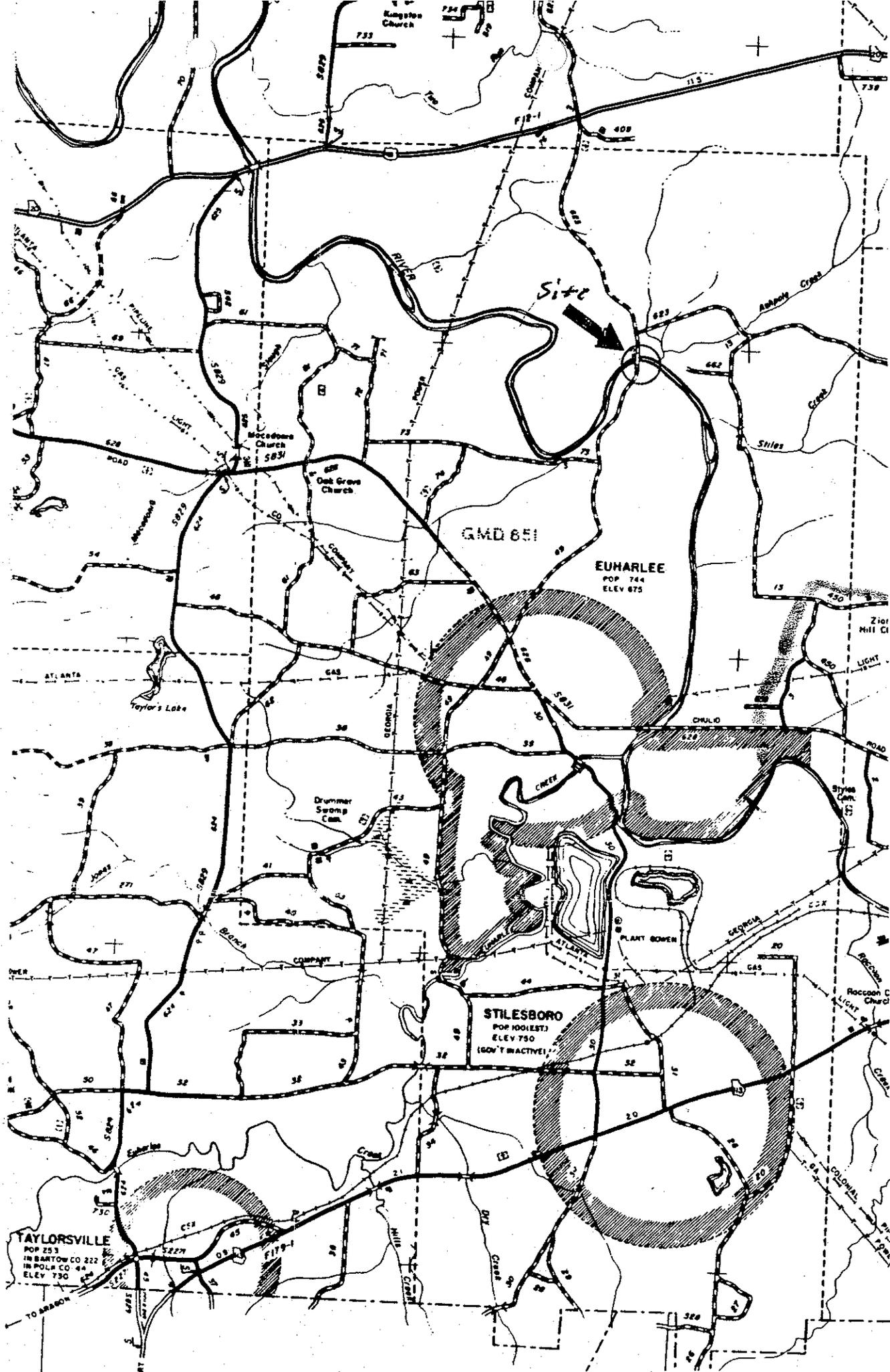
() PROGRAMMING PROCESS (X) CONCEPT DEVELOPMENT () DURING PROJECT DEV.

PROJECT COST		
A. RIGHT-OF-WAY:		
1. PROPERTY (LAND & EASEMENT)		\$ 0
2. DISPLACEMENTS; RES:0, BUS;0, M.H.:0		\$ 0
3. OTHER COST (ADM./COST, INFLATION)		\$ 0
	SUBTOTAL:A	\$ 0
B. REIMBURSABLE UTILITIES:		
1. RAILROAD		\$ 0
2. TRANSMISSION LINES		\$ 0
3. SERVICES		\$ 0
	SUBTOTAL:B	\$ 0
C. CONSTRUCTION:		
1. MAJOR STRUCTURES:		
a. RETAINING WALLS		\$ 0
b. BRIDGES: 420'X32' CONC. BRIDGE (13440 SF)		\$ 1008000.00
c. DETOURS BRIDGES		\$ 0
d. BOX CULVERTS		\$ 0
	SUBTOTAL:C-1	\$ 1008000.00
2. GRADING AND DRAINAGE:		
a. EARTHWORK: 22000 CY		\$ 110000.00
b. DRAINAGE:		
1) Cross Drain Pipe (exclude box culverts)		\$ 3700.00
2) Curb and Gutter		\$ 0
3) Longitudinal System(include catch basins)		\$ 0
	SUBTOTAL:C-2	\$ 113700.00
3. BASE AND PAVING:		
a. AGGREGATE BASE		\$ 29000.00
b. ASPHALT PAVING: Surface	\$ 13000.00	
Binder	\$ 17300.00	

PROJECT COST		
Base	\$ 18800.00	
	SUBTOTAL:C-3.b	\$ 49100.00
c. CONCRETE PAVING		\$ 0
d. OTHER		\$ 0
	SUBTOTAL:C-3	\$ 78100.00
4. LUMP ITEMS:		
a. TRAFFIC CONTROL		\$ 10000.00
b. CLEARING AND GRUBBING		\$ 6000.00
c. LANDSCAPING		\$ 0
d. EROSION CONTROL		\$ 5000.00
e. DETOURS		\$ 0
	SUBTOTAL:C-4	\$ 21000.00
5. MISCELLANEOUS:		
a. LIGHTING		\$ 0
b. SIGNING - STRIPING - SIGNAL		\$ 0
c. GUARDRAIL		\$ 13800.00
d. SIDEWALK - MEDIAN BARRIER		\$ 0
	SUBTOTAL:C-5	\$ 13800.00
6. SPECIAL FEATURES	SUBTOTAL:C-6	\$ 0

ESTIMATE SUMMARY

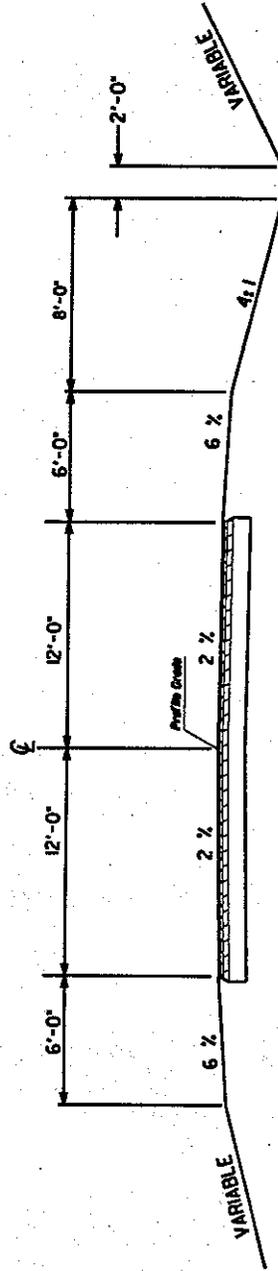
A. RIGHT-OF-WAY		LGPA \$
B. REIMBURSABLE UTILITIES		LGPA \$
C. CONSTRUCTION		
1. MAJOR STRUCTURES	\$ 1008000.00	
2. GRADING AND DRAINAGE	\$ 113700.00	
3. BASE AND PAVING	\$ 78100.00	
4. LUMP ITEMS	\$ 21000.00	
5. MISCELLANEOUS	\$ 13800.00	
6. SPECIAL FEATURES	\$ 0	
SUBTOTAL CONSTRUCTION COST	\$ 1234600.00	
E. & C. (10%)	\$ 123460.00	
INFLATION (5% PER YEAR)	\$ 123460.00	
NUMBER OF YEARS	2	
TOTAL CONSTRUCTION COST		\$1481520.00
GRAND TOTAL PROJECT COST		\$1481520.00



DATE	DESCRIPTION	BY	APP'D
02-15-17			

TYPICAL SECTION

NO SCALE



Concept Team Meeting

Project: BRZLB-15(17) Bartow County
PI No.: 671225

Date: 10-06-2000
Meeting Date: 10-03-2000

Meeting Roster:

William Darby
Jason Moore
Melissa King
Harlan Conley
Steve Sanders
Royce Turner
Denver Poole
Kathy Spradley
DeWayne Comer
Clarence Brown
Steve Bradley
Dwight Fox

District 6 Design
Area 1 Construction
Area 1 Construction
District 6 Location
District 6 Traffic Ops.
District 6 Utilities
Local Gov't. R/W Coord.
District Environmental
District Preconstruction
Bartow County
Bartow County
Bartow County

Comments: A concept team meeting was held at the project site on 10-3-2000. The project was discussed with the following comments.

This project is the replacement of the bridge over the Etowah River on CR 851 in Bartow County.

Project Location: A portion of the existing road will be relocated and a new bridge will be constructed upstream of the existing bridge. The approaches will tie to the existing road approximately as shown on the attached sketch.

Construction: There should not be any unusual problems associated with the construction of this bridge and approaches.

Utilities: The existing utilities on this project are power and telephone. There are no utilities attached to the existing bridge.

Rights of Way: There are 3 parcels of rights-of-way on this project the local government will be responsible for acquiring it.

Estimate: The estimate for this project is satisfactory.

Local Government: The County would like for the existing bridge to be retained.

Traffic: Traffic will be maintained during construction using the existing bridge.

Environmental: Level of environmental analysis: Categorical Exclusion. A 404 Permit will be required for this project. The existing bridge will be retained.

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

FILE BRZLB-15 (17) Bartow Co.
Harden Bridge Road
P. I. 671225

OFFICE Cartersville

DATE July 24, 2000

FROM Kent L. Sager,
District Engineer

TO Dewayne Comer, P.E.
District Design Engineer
Attn: William Darby

SUBJECT PRELIMINARY UTILITY COST ESTIMATE

As requested by your office, we are furnishing you with a Preliminary Utility Cost Estimate for each utility with facilities located within the project limits.

UTILITY OWNER	NON- REIMBURSABLE	REIMBURSABLE	LOCAL GOVT. COST
Georgia Power Co.		\$3,000.00	
BellSouth		1,200.00	
Totals		\$4,200.00	

Total Preliminary Utility Cost Estimate \$4,200.00

If you have any questions, please contact Paul Simmons at 770-387-3615.



By: Scott K. Greene, P.E.
District Utilities Engineer

SKG/WPS/do

C: Dudley Ellis, State Utilities Engineer;
Herman Griffin, Office of Programming;
James Thomason, Area Engineer
File/Estimating Book

JUL 26

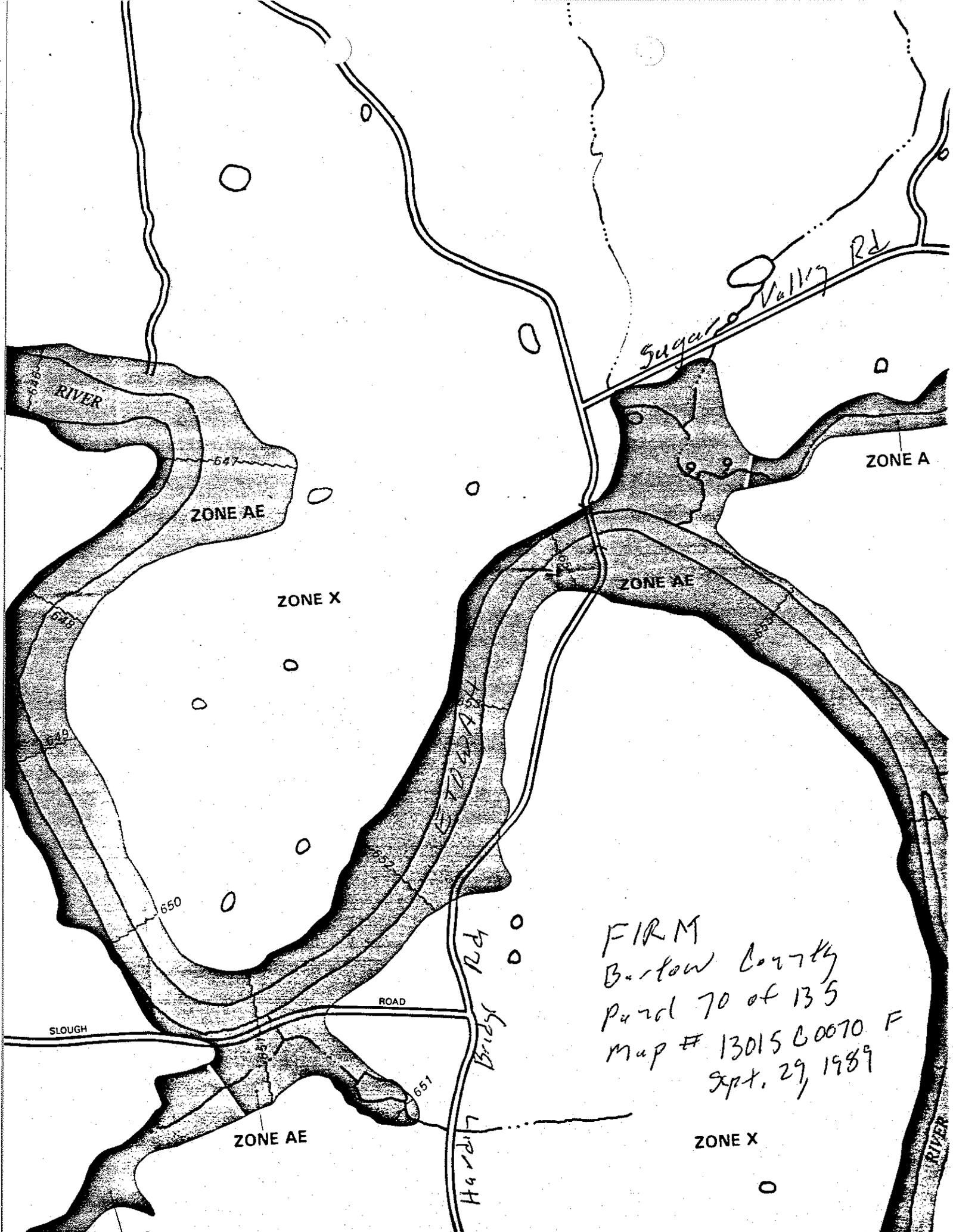
Rights of Way Cost Estimate

**BRZLB-15(17) Bartow County
P.I. No. 671125**

Approximately 3.5 acres of required R/W

3.5 X \$5500 = \$19250.00

Total R/W cost \$19250.00



RIVER

ZONE AE

ZONE X

ZONE AE

ZONE A

ZONE AE

ZONE X

Sugar Valley Rd

Hardy Rd
Bridge

SLOUGH

ROAD

FIRM
Barlow County
Parcel 70 of 135
Map # 13015 C0070 F
Sept. 29, 1989

RIVER

647

647

649

650

651



ORIGINAL

Department of Transportation

State of Georgia

#2 Capitol Square, S.W.

Atlanta, Georgia 30334-1002

July 21, 1999

WAYNE SHACKELFORD
COMMISSIONER
(404)656-5206

FRANK L. DANCHETZ
CHIEF ENGINEER
(404)656-5277

STEVEN L. PARKS
DEPUTY COMMISSIONER
(404)656-5212

BILLY F. SHARP
TREASURER
(404)656-5224

RECEIVED

JUL 28 1999

OFFICE OF PROGRAMMING

LOCAL GOVERNMENT PROJECT AGREEMENT

In consideration of the proposed improvements, BARTOW County agrees to provide or perform the following at no cost to the Georgia D.O.T. for project BRZLB-15(17) BARTOW CO., PI # 671225-:

BRIDGES

CR 851/HARDIN BRIDGE ROAD @ ETOWAH RIVER NORTH OF EUHARLEE

Provide all rights-of-way and/or easements needed for the construction of the project and remove existing structures or obstructions within the rights-of-way.

Make all utility relocations, adjustments or betterments of publicly owned utilities that are in conflict with construction of this project. Reimburse Georgia D.O.T. for any damages paid to the contractor for delay of construction caused by a delay in relocating the publicly owned utilities.

Relocate or adjust all privately owned utilities to clear construction of this project, including adjustments at railroad crossings if required.

Furnish detours, local borrow & waste pits as needed.

OTHER: Bartow County to contribute 20% of construction cost.

We support this project but choose not to commit any funding, realizing this may delay the project until additional funding can be found.

This 26th day of July, 1999

APPROVED Clarence Brown

City/County Official



ROAD INFORMATION SYSTEM

County	: BARTOW	Type Median:	NONE
Route	: 85100, CR	Add.Lane lf:	NONE
Milepoint	: 0295	Add.Lane rt:	NONE
Number Lanes	: 02	Road system:	RURAL MINOR COLLECTOR
Travel Width	: 021	Int RD Name:	ETOWAH RIVER
Truck %	: 7.5	Type Signal:	NONE
97 ADT,98 ADT	: 000940, 001070	Inv Year	: 99
Access Control:	UNCONTROLLED	Yr.Improved:	96
Paces rating	: 85 (1999)	Type Improv:	RESURFACE
Truck Route	: NO	Surface Typ:	MIXED BITUMINOUS
Accident Data	: CALL T&S	Pop Density:	RURAL OUTSIDE INCORP AREA
Right of Way	: EST-050	Operation	: TWO WAY (NON RESTRICTED)
Speed Limit	: 35	Description:	BRS50090
Left shd width:	03	Lft Shd Typ:	GRASS
Rgt shd width:	03	Rgt Shd Ttp:	GRASS
District	: CARTERSVILL	Contact	: Michael Long (770) 387-3656

A advance, B=go back, M=back to menu: A

ADT
 2000 = 1370
 2020 = 1850

NOTICE OF LOCATION AND DESIGN APPROVAL

**BRZLB-15(17) BARTOW COUNTY
P.I. 671225**

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 the replacement of the bridge over Etowah River on Harden Bridge Road (County Road 851), Bartow County, in Land Lots 245 and 245, 17th district, 3rd section.

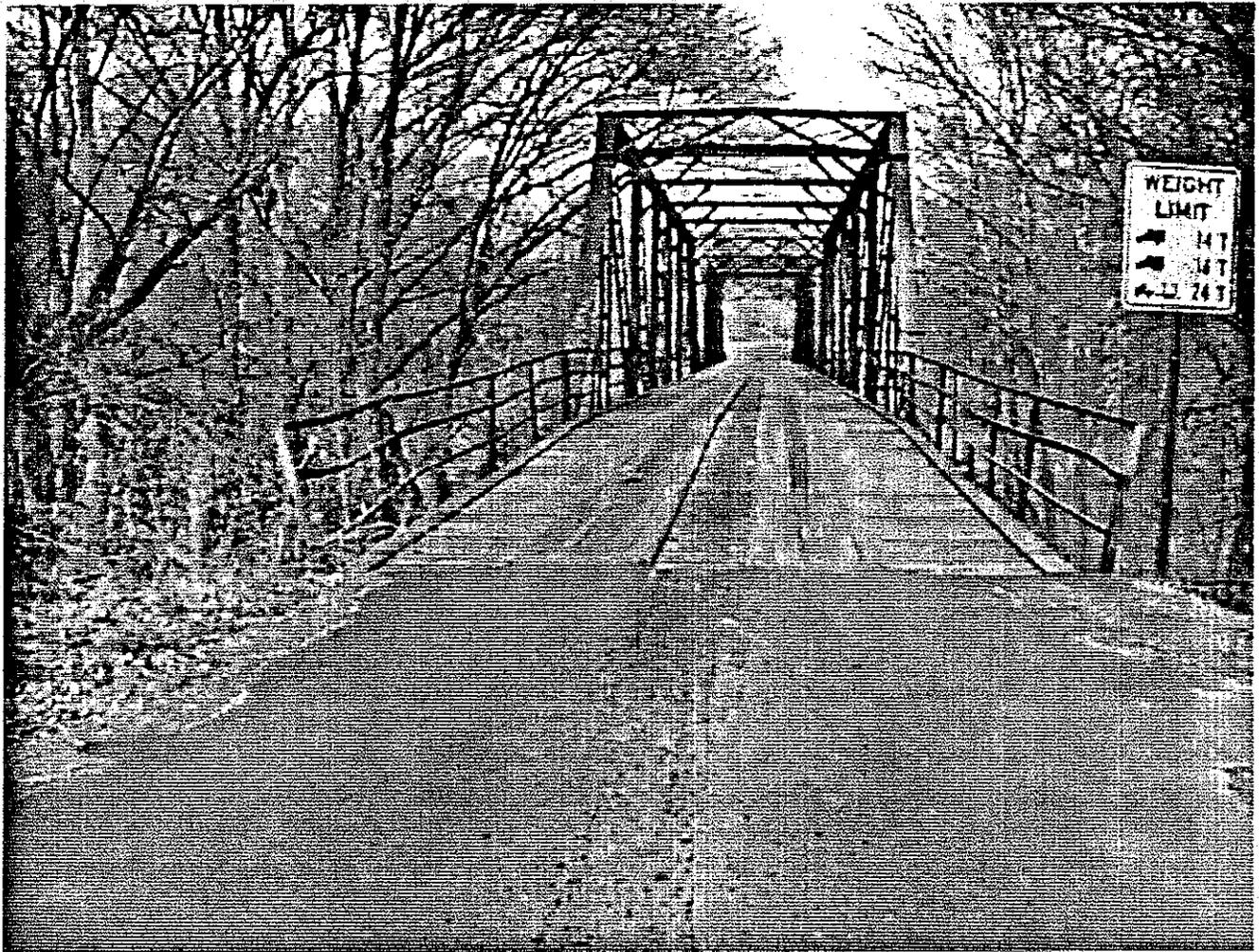
Date of Location and Design approval:

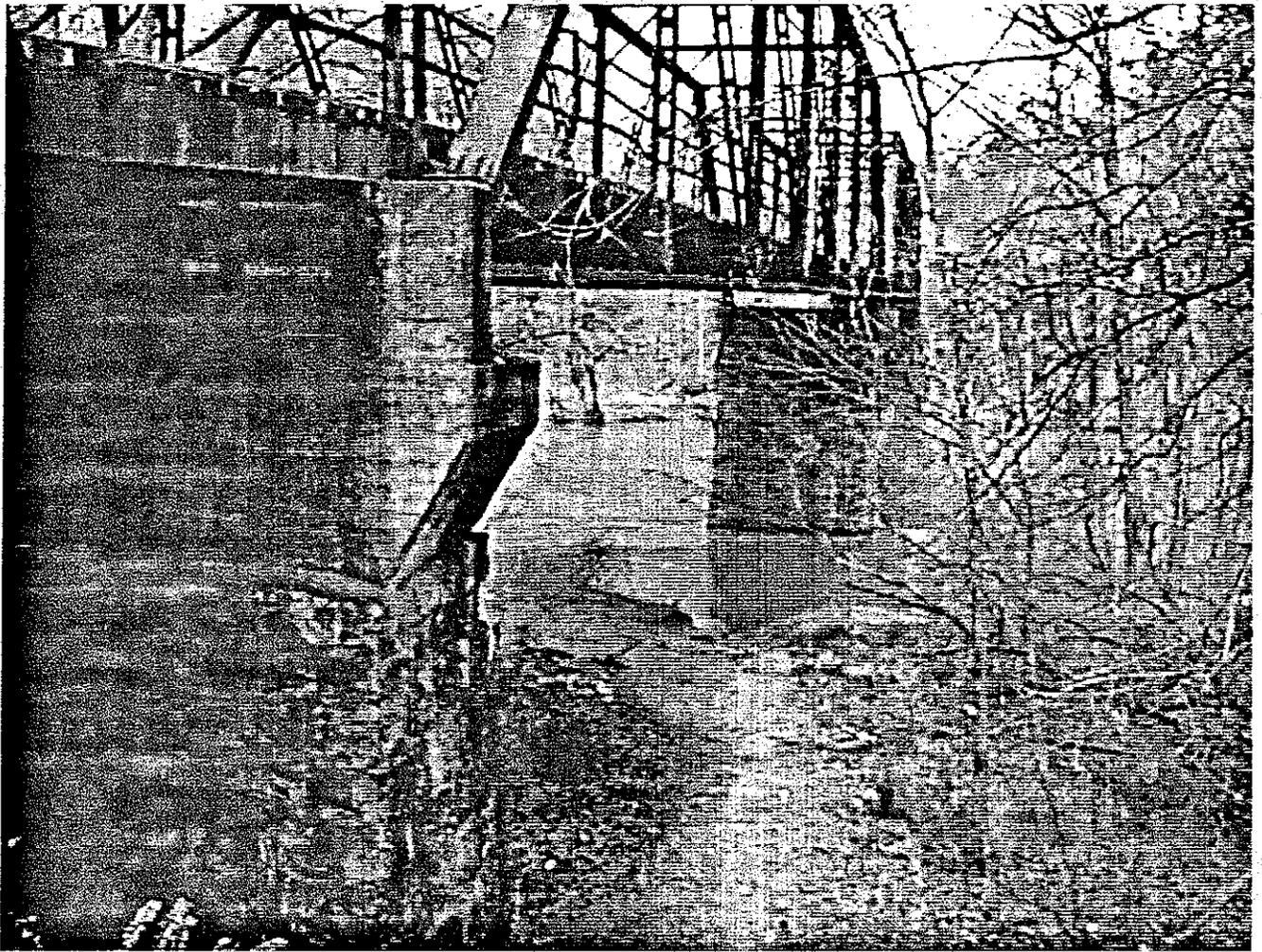
This project will replace the bridge and approaches over the Etowah River on Harden Bridge Road. The new bridge will be located approximately 150 ft. East of the existing structure. The existing structure would be used to maintain traffic during construction and removed when construction is completed.

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 drawing, 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:

**Curtis DeWayne Comer
Preconstruction Office
500 Joe Frank Harris Parkway
Cartersville, Georgia 30120
770-387-3622**





188

292 AC.

187

SUGAR

End Project

EXIST. C/D

Regd. Riv

45

ETOWAH

246

River

370'

410'

Regd. Riv

EXIST. NW/2

Reg Project

60

259

