

ORIGINAL TO GENERAL FILES

D.O.T. 66

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

FILE BRS LB-1614(4) Carroll County **OFFICE** Preconstruction
P. I. No. 642310
DATE April 30, 1999
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:

Walker Scott
Bobby Mustin
David Studstill (ATTN: Harvey Keeper)
Jerry Hobbs
Herman Griffin
Georgene Geary (ATTN: Michael Henry)
Marion Waters
Marta Rosen
Paul Liles
Don Mills
Charles Law

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE BRSLB-1614(4) Carroll County **OFFICE** Preconstruction
P.I. No. 642310 **DATE** March 18, 1999
FROM *Walker W. Scott, Jr.*
Walker W. Scott, Jr., 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 829/Clem-Lowell Road over Whooping Creek, southeast of Carrollton, Georgia. The existing one lane bridge is 102' x 16.2' with a sufficiency rating of 17. The existing approaches consist of 18' pavement with variable 2'-3' rural shoulders on 80' of existing right-of-way. The base year traffic (2005) along this section of CR 829 is 750 VPD. The 20 year (2025) or design year projected volume is 1,050 VPD. The posted speed and the design speed are 45 MPH.

The construction proposes to replace the existing bridge with a 180' x 32' concrete structure over Whooping Creek along the existing alignment. The approaches will consist of two, 11' lanes with 5' shoulders on 80' of right-of-way. The sharp curve at the project's northern terminus will be flattened to meet a 45 MPH speed design. The roadway will be closed during construction. Through traffic will utilize existing roads and streets as a detour.

Two additional alternatives for this project were considered and rejected. **Alternative #1** - "No-Build" - does not meet the need and purpose of the project. **Alternative #2** - proposed connecting CR 547 and CR 829 as the mainline and tie the northern leg of CR 829 into this alignment at a "T" intersection. This alternative was eliminated because CR 829 is the primary route.

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)	\$704,000	\$429,000	2003	02-07
Right-of-Way & Utilities*	-----	-----		

Wayne Shackelford
Page 2

BRSLB-1614(4) Carroll
March 18, 1999

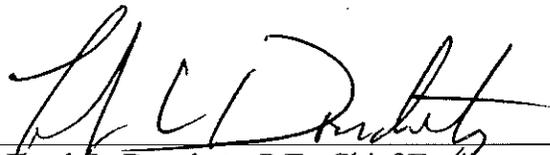
*LGPA will be sent requesting Carroll County be responsible for right-of-way, utilities and detours.

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

WWS:JDQ/cj

Attachment

CONCUR



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

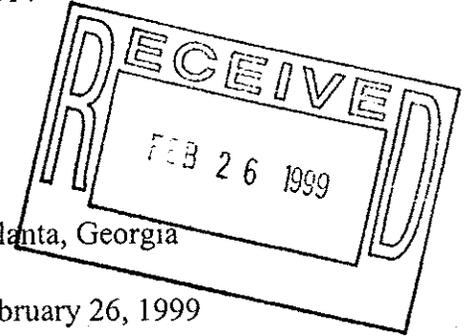
APPROVE



Wayne Shackelford, Commissioner

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENTAL CORRESPONDENCE



FILE: BRSLB-1614(4) Carroll
P.I. Number 642310

OFFICE: Atlanta, Georgia

DATE: February 26, 1999

FROM: Bob Mustin, Project Review Engineer *OTM*

TO: Wayne Hutto, Assistant Director of Pre-construction

SUBJECT: CONCEPT REPORT

We have reviewed the concept report submitted February 25, 1999 by the letter from Charles Law dated February 19, 1999, and have the following comments:

1. The concept report shows the project as Non-CA. Since the project is not on the national highway system, is not an ATMS project, and is not a federal land project, the project should be shown as Exempt.

The costs for the project are:

Construction	\$513,000
Inflation	\$103,000
E&C	\$ 62,000
Preliminary Engineering	\$ 26,000
Reimbursable Utilities	\$? (LGPA)
Right of Way	\$? (LGPA)

DTM

c: Charles Law – Attention: Jim Hullett

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

PROJECT CONCEPT REPORT

BRSRB 1614 (4) CARROLL COUNTY

P.I. NUMBER 642310

Federal Route No.: N/A

Date of Report: February 22,1999

State Route No.: N/A

RECOMMENDATION FOR APPROVAL

2-22-99

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

Date

State Environmental/Location Engineer

Date

State Road Design Engineer

2/23/99

Date

Charles J. Jones
District Engineer

Date

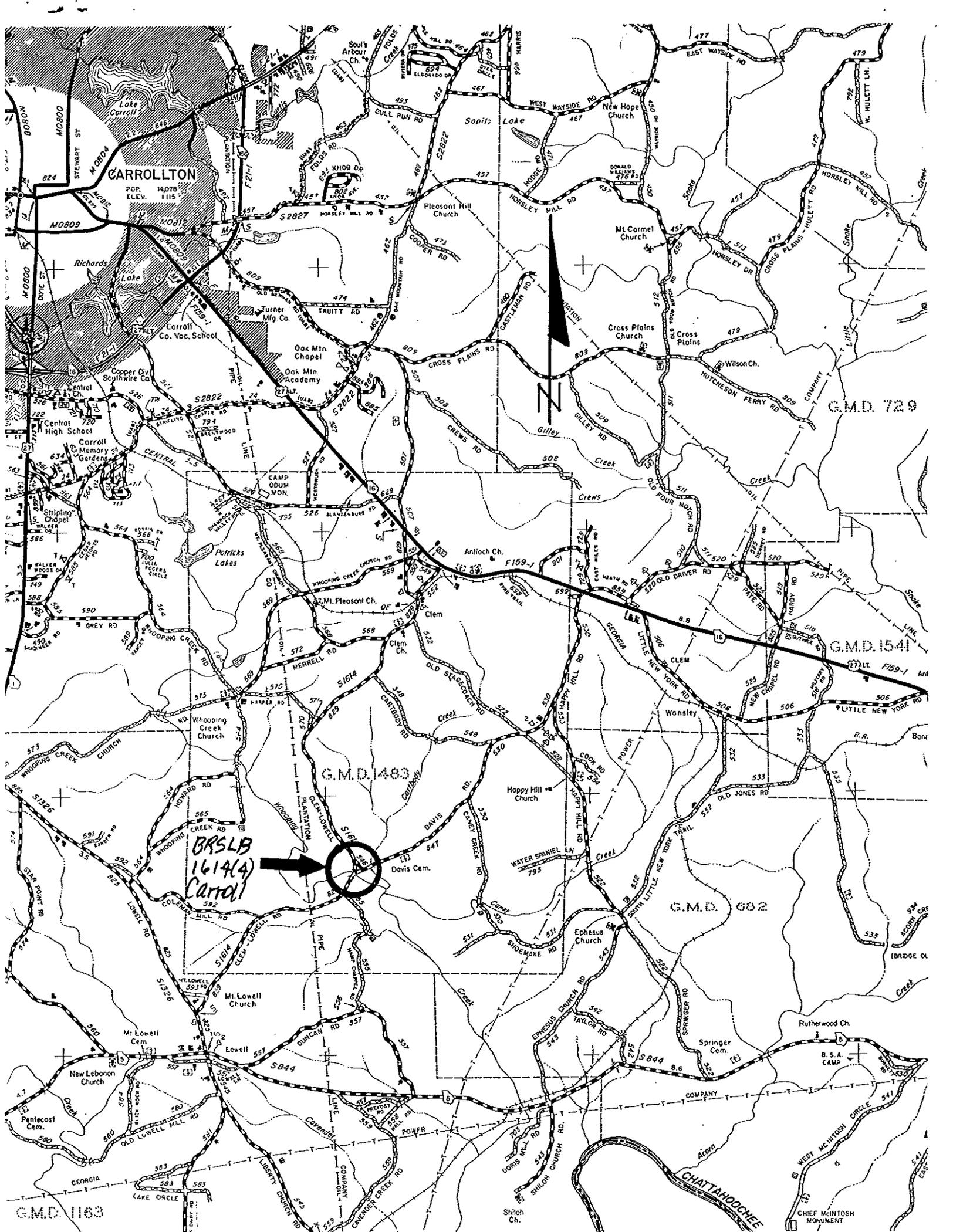
Project Review Engineer

Date

State Traffic Operations Engineer

Date

State Bridge & Structural Engineer



CARROLLTON

POP. 14,078
ELEV. 1115

G.M.D. 729

G.M.D. 1541

G.M.D. 1483

G.M.D. 682

G.M.D. 1163

BRSLB
1614(4)
Carroll



PROJECT CONCEPT REPORT

BRSLB 1614 (4) CARROLL COUNTY

PROJECT LOCATION AND DESCRIPTION

COUNTY Road 829 – Clem –Lowell Road over Whooping Creek

PROJECT LENGTH:

0.30 MILES

TRAFFIC

CURRENT

PROJECTED

**YEAR
2005**

**AADT
750**

**YEAR
2025**

**AADT
1050**

**PDP CLASSIFICATION
MINOR**

**FUNCTIONAL CLASSIFICATION
RURAL MAJOR COLLECTOR**

NON-CA ()

CA ()

EXEMPT (X)

N/A ()

NEED AND PURPOSE

This bridge is structurally deficient, and its narrow width (16.2 ft.) make it difficult for two cars to meet on this bridge.

EXISTING ROADWAY

TYPICAL SECTION: 18 ft. pavement with 2-3 ft. shoulders		RIGHT-OF-WAY WIDTH 80 ft.
POSTED SPEED	MAXIMUM DEGREE OF CURVE	MAXIMUM GRADE
45 MPH	16	10%

MAJOR STRUCTURES

FEATURES INTERSECTED/TYPE	LENGTH	WIDTH	PRIORITY RATING	SUFF. RATING
045-0080-0	102 ft.	16.2 ft.		17.8

HAZARD INDEX:

PROPOSED ROADWAY

TYPICAL SECTION: 11 ft. lanes, with 5 ft. shoulders lt. and rt. (Propose 11 ft. lanes to match 32 ft. bridge per TOPPS 4265-9)

DESIGN SPEED	MAXIMIM DEGREE OF CURVE		MAXIMUM GRADE	
MPH	ALLOWABLE		ALLOWABLE	9.5%*See Comments
45	PROPOSED	8.75	PROPOSED	9.5%*See Comments

PROPOSED MAJOR STRUCTURES

FEATURES INTERSECTED/TYPE	LENGTH	WIDTH
	180 ft.	32 ft.

PROPOSED RIGHT-OF-WAY

RIGHT-OF-WAY WIDTH	PARCELS IMPACTED	DISPLACEMENTS		
80 ft. Minimum	9	RES.: None	BUS.: None	M.H.: None

TYPE OF ACCESS CONTROL: Controlled by Carroll County

COORDINATION AND SCHEDULING

CONCEPT TEAM MEETING DATE: February 12, 1999

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:

TIME TO COMPLETE ENVIRONMENTAL:	5 MONTHS
TIME TO COMPLETE PRELIMINARY RD/RW PLANS:	3 MONTHS
TIME TO COMPLETE 404 PERMIT:	Simultaneous with environmental
TIME TO COMPLETE FINAL CONSTRUCTION PLANS	4 MONTHS
TIME TO BUY RIGHTS-OF WAY:	6 MONTHS

OTHER PROJECTS IN THE AREA: None with a compatible let date.

LOCAL GOVERNMENT COMMITMENTS: LGPA not executed at this time. Anticipate R/W, Utilities and Detour

MISCELLANEOUS

TRAFFIC CONTROL DURING CONSTRUCTION: Road to be closed during construction.

LEVEL OF ENVIRONMENTAL ANALYSIS: Categorical Exclusion.

UNDERGROUND STORAGE TANKS: None Anticipated.

HAZARDOUS WASTE SITES: None Anticipated.

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

-
- No build.
 - Connect CR 547 and CR 829 as the mainline, and connect the northern leg of CR 829 into this alignment.
 - Allow CR 829 to remain as the primary route, and connect CR 547 into CR 829.
 - Recommend Alternate 3, since CR 829 is the primary route.
-

ESTIMATED COST

CONSTRUCTION:	\$513,225.00	RIGHT-OF-WAY:	LGPA
E & C (10%):	51,332.50	ACQUIRED BY:	LGPA
INFLATION:	112,909.50	UTILITIES:	LGPA
(4 yrs at 5% per yr):		ADJUSTED BY:	Owners
TOTAL CONST COST:	677,467.00		

COMMENTS

Reference to note on page 463 of the 1994 AASHTO book, referring to 2% steeper grades than the table allows on low volume Rural Collectors.

ATTACHMENTS: Typical Section
Notice of Location and Design Approval
Cost Estimate
Regulated Floodplains Map

PREPARED BY:

DENNIS THOMPSON

NOTICE OF LOCATION AND DESIGN APPROVAL

BRS LB 1614 (4) CARROLL COUNTY
P.I. 642310

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 Whooping Creek on Clem – Lowell Road (County Road 829), Carroll County, in Land Lot 38,4 th District.

Date of Location and Design Approval:

This project will replace the bridge and approaches over Whooping Creek on Clem – Lowell Road. The Georgia Department of Transportation will request permission from Carroll County to close Clem - Lowell Road during construction of this bridge and approaches.

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 or 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

Regulated Flood
Plain Map.

Whoop

CLE

Georgia

of

1614

FAS

Creek

ZONE A

Creek

BRSLB
1614(A)
Carroll County

Cartbody

ZONE A

Whooping

Caney

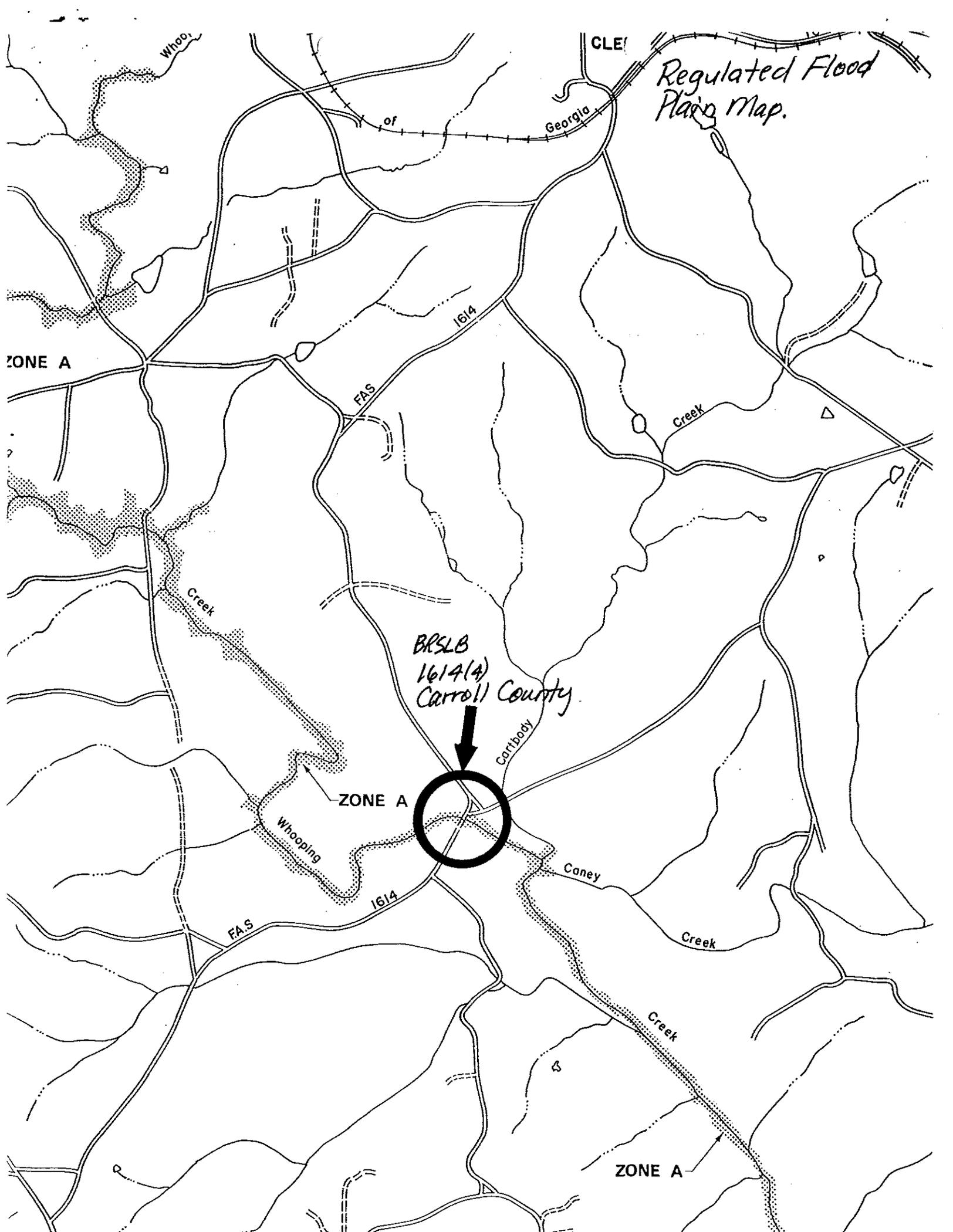
1614

FAS

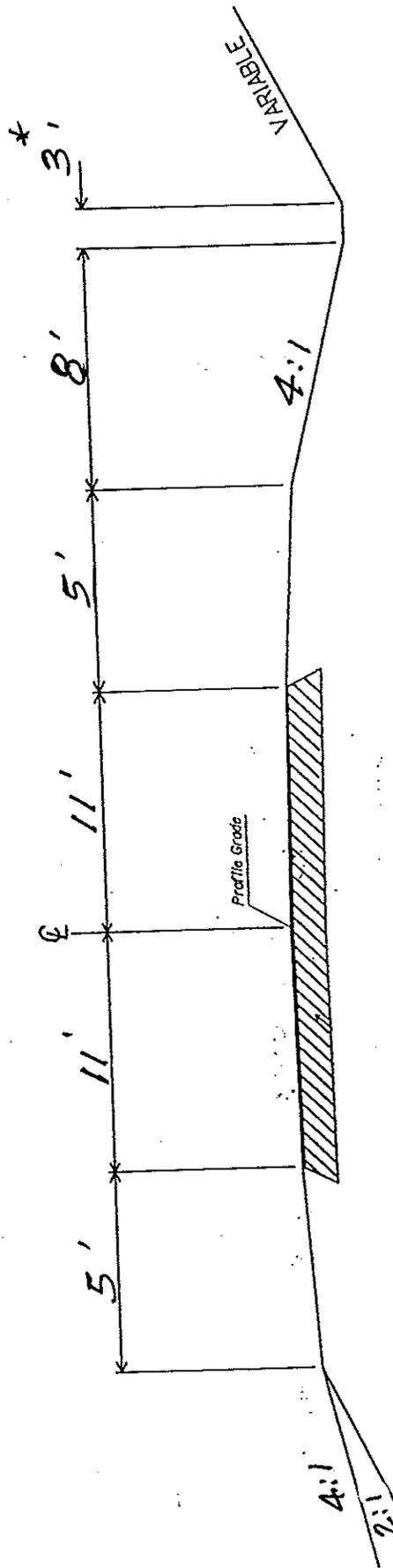
Creek

Creek

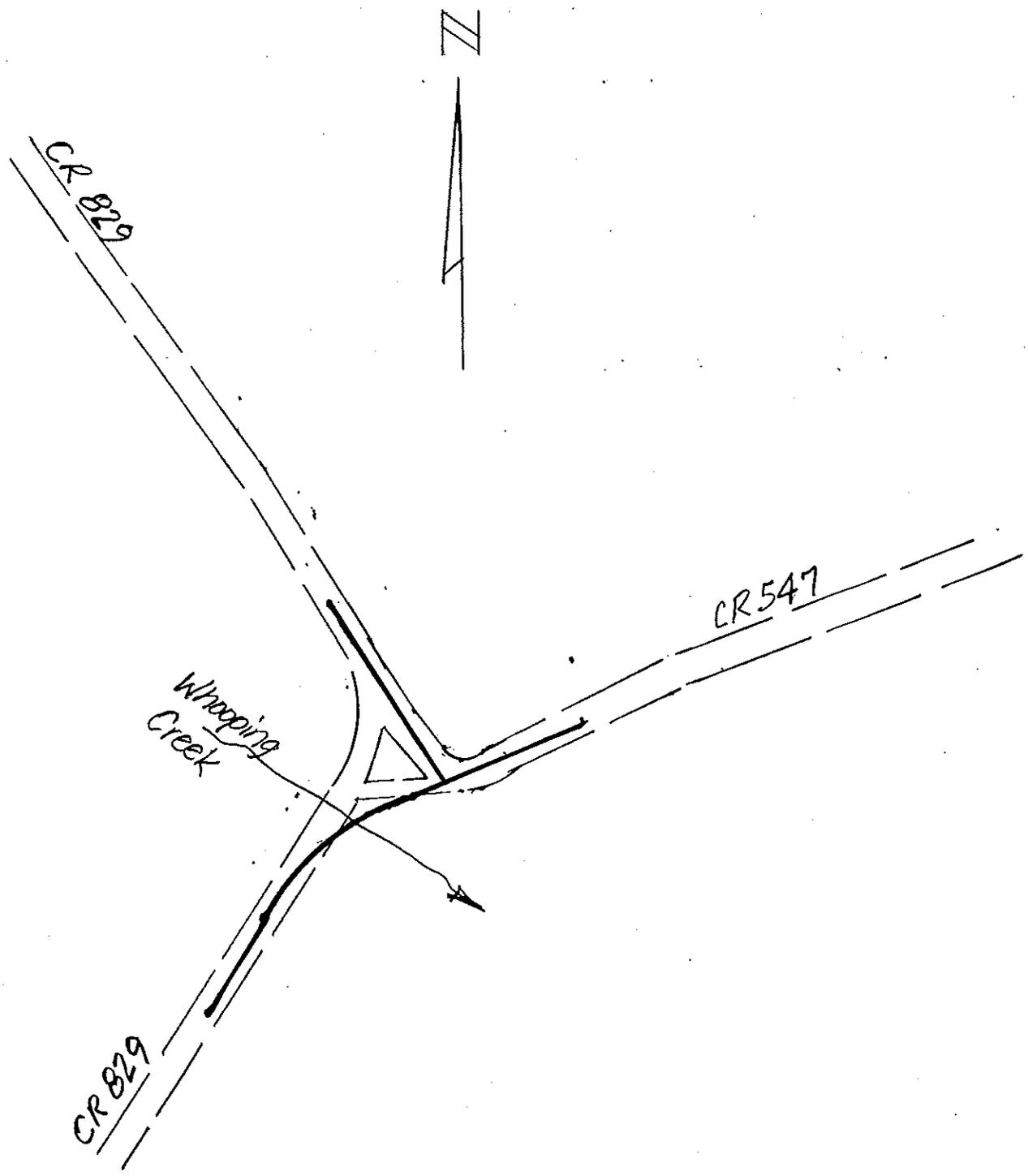
ZONE A



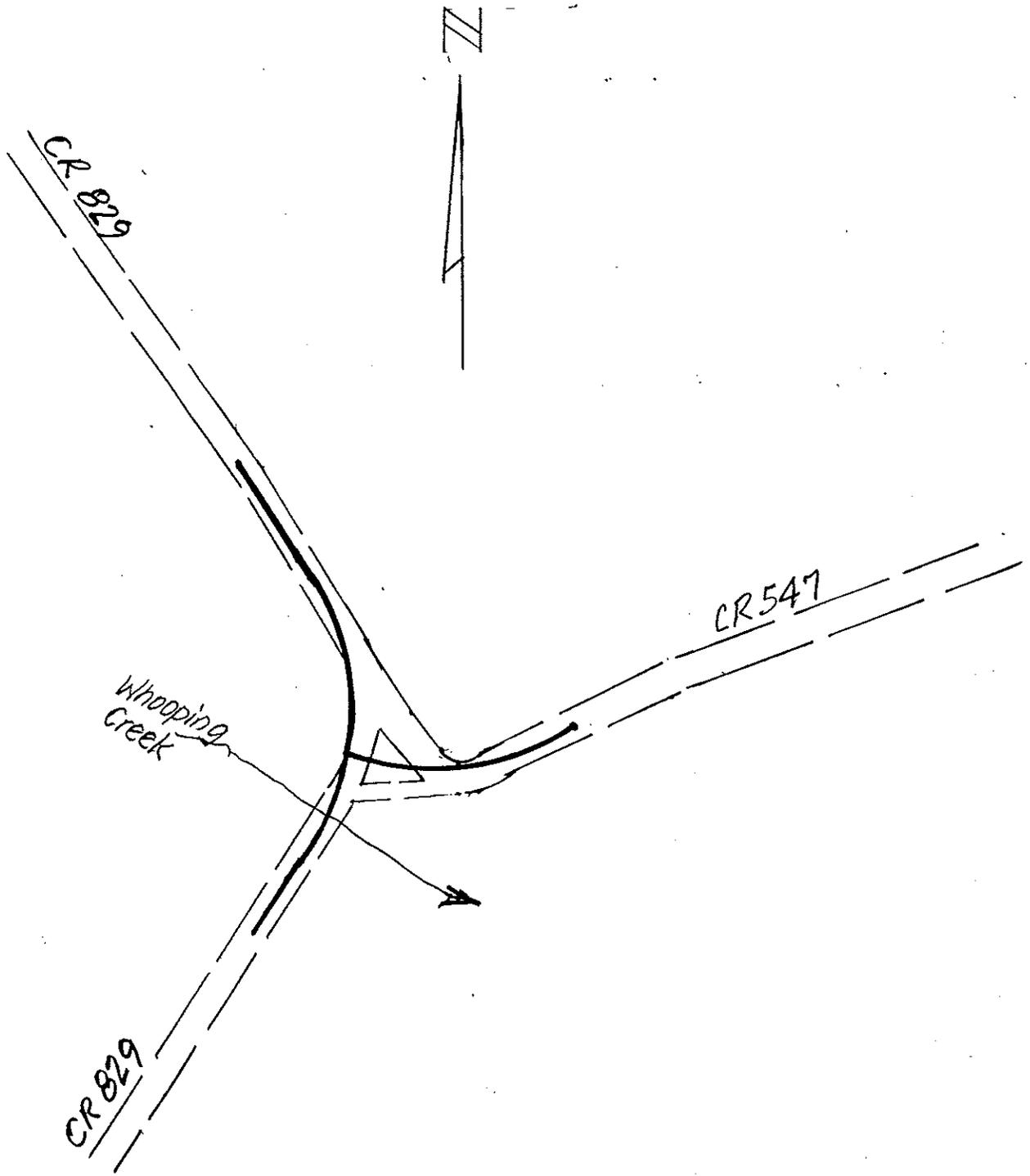
TYPICAL SECTION



* Increased from 2' to give clear zone requirements of 16' from edge of pavement.



Alternate 2
Scale: 1" = 400'



Alternate 3
Scale: 1" = 400'

PRELIMINARY COST ESTIMATE

PROJECT NUMBER: BHS LB 1614 (4)

COUNTY: CARROLL

DATE: February 22, 1999

ESTIMATED LETTING DATE: July 2002

PREPARED BY: DENNIS THOMPSON

PROJECT LENGTH 0.3 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	\$ LGPA
B. REIMBURSABLE UTILITIES:	
1. RAILROAD	\$ 0
2. TRANSMISSION LINES	\$ 0
3. SERVICES	\$ 0
SUBTOTAL:B	\$ LGPA
C. CONSTRUCTION:	0
1. MAJOR STRUCTURES	\$ 0
a. RETAINING WALLS	\$ 0
b. BRIDGES- 180 lf X 32 ft. wide @ \$60.00/sf	\$ 345,600.00
c. DETOURS BRIDGES	\$ 0
d. BOX CULVERTS	\$ 0
SUBTOTAL:C-1	\$ 345,600.00
2. GRADING AND DRAINAGE:	
a. EARTHWORK - 10,000 cy @ \$5.00/cy	\$ 50,000.00
b. DRAINAGE:	
1) Cross Drain Pipe (exclude box culverts)	\$ 0
2) Side Drain Pipe - 100 lf 18 in. @ \$25.00/lf	\$ 2,500.00
3) Flared End Section, Side Drain - 8 ea @ \$350.00/ea	\$ 2,800.00
SUBTOTAL:C-2	\$ 55,300.00

PROJECT COST		
3. BASE AND PAVING:		
a. AGGREGATE BASE - 1950 t @ \$112.50/t		\$ 24,375.00
b. ASPHALT PAVING: Surface- 350 t @ \$40.00/t	\$14,000.00	
Binder- 700t @ \$40.00/t	\$28,000.00	
Base	\$ 0	
SUBTOTAL:C-3.b		\$ 42,000.00
c. CONCRETE PAVING		\$ 0
d. OTHER		\$ 0
SUBTOTAL:C-3		\$ 66,375.00
4. LUMP ITEMS:		
a. TRAFFIC CONTROL - Lump		\$ 5,000.00
b. CLEARING AND GRUBBING - 3 ac @ \$5,000/ac		\$ 15,000.00
c. LANDSCAPING		\$ 0
d. EROSION CONTROL - silt fen tp A,C - Erosion Control Mat. - Filter Fabric, Grassing		\$ 17,450.00
e. DETOURS		\$ LGPA
SUBTOTAL:C-4		\$ 37,450.00
5. MISCELLANEOUS:		
a. LIGHTING		\$ 0
b. STRIPING		\$ 1,000.00
c. GUARDRAIL - 400 lf @ \$12.50/lf - 2 tp 1, 2 tp 12 anch		\$ 7,500.00
d. SIDEWALK - MEDIAN BARRIER		\$ 0
SUBTOTAL:C-5		\$ 8,500.00
6. SPECIAL FEATURES _____	SUBTOTAL:C-6	\$ 0

ESTIMATE SUMMARY

A. RIGHT-OF-WAY		LGPA
B. REIMBURSABLE UTILITIES		LGPA
C. CONSTRUCTION		
1. MAJOR STRUCTURES	\$ 345,600.00	
2. GRADING AND DRAINAGE	\$ 55,300.00	
3. BASE AND PAVING	\$ 66,375.00	
4. LUMP ITEMS	\$ 37,450.00	
5. MISCELLANEOUS	\$ 8,500.00	
6. SPECIAL FEATURES	\$ 0	
SUBTOTAL CONSTRUCTION COST	\$ 513,225.00	
E. & C. (10%)	\$ 51,332.50	
INFLATION (5% PER YEAR)	\$ 112,909.50	
NUMBER OF YEARS	4	
TOTAL CONSTRUCTION COST		\$677,467.00
GRAND TOTAL PROJECT COST		\$677,467.00

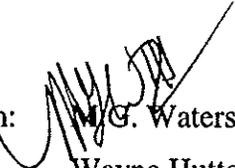
Department of Transportation
State of Georgia

INTERDEPARTMENTAL CORRESPONDENCE

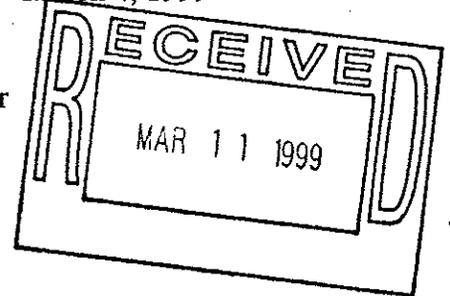
File: BRSLB-1614(4)/Carroll County
P.I. No. 642310

Office: Traffic Operations
Atlanta, Georgia

Date: March 4, 1999

From:  M.G. Waters, III, P.E., State Traffic Operations Engineer

To: Wayne Hutto, Assistant Director of Preconstruction



Subject: Project Concept Report Review

We have reviewed the concept report on the above project for the widening of a narrow structurally deficient bridge on Clem Lowell Road(CR 829) over Whooping Creek, and the realignment of Davis Road(CR 547). Davis Road will be realigned to enter Clem-Lowell Road as a more direct "T" intersection.

The bridge is currently only 16.2 feet wide making it difficult for two cars to pass simultaneously. The structure has a sufficiency rating of 17.8. The existing roadway has 18 feet of paving with two to three foot shoulders, and a posted speed limit of 45mph.

The proposed roadway will have two 11 foot lanes with 5 foot shoulders. The new structure will be widened to 32 feet as required by MOG 4265-9 and the design speed will be 45mph.

The road will be closed during construction.

We believe this concept will improve safety and traffic operations along this section of roadway.

We therefore find this report satisfactory for approval.

MGW:TWS

Attachment (signature page)

c: David Studstill
Charles Law, P.E., District Engineer, Cartersville
Attn: James Hullett
Bob Mustin, w/ attachment
Toni Dunagan
General Files

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

PROJECT CONCEPT REPORT

BRSRB 1614 (4) CARROLL COUNTY

P.I. NUMBER 642310

Federal Route No.: N/A

Date of Report: February 22,1999

State Route No.: N/A

RECOMMENDATION FOR APPROVAL

2-22-99

Date

James W. Hulbert 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

Date

State Environmental/Location Engineer

Date

State Road Design Engineer

2/23/99

Date

Chad J. Jnr
District Engineer

Date

Project Review Engineer

3-5-99

Date

Marion Hulbert Jr
State Traffic Operations Engineer

Date

State Bridge & Structural Engineer

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

PROJECT CONCEPT REPORT

BRSLB 1614 (4) CARROLL COUNTY

P.I. NUMBER 642310

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State Road Design Engineer

2/23/99

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Charles J. ...
 District Engineer

Date

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

BRSRB 1614 (4) CARROLL COUNTY

P.I. NUMBER 642310

Federal Route No.: N/A

Date of Report: February 22,1999

State Route No.: N/A

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 State Environmental/Location Engineer

 Date

 State Road Design Engineer

2/23/99

Date

Charles J. ...
 District Engineer

 Date

 Project Review Engineer

 Date

 State Traffic Operations Engineer

3/6/99

Date

Paul V. ...
 State Bridge & Structural Engineer

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

PROJECT CONCEPT REPORT

BRSRB 1614 (4) CARROLL COUNTY

P.I. NUMBER 642310

Federal Route No.: N/A

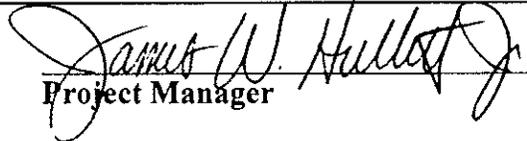
Date of Report: February 22,1999

State Route No.: N/A

RECOMMENDATION FOR APPROVAL

2-22-99

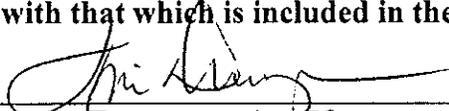
Date


Project Manager

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3/19/99

Date


State Transportation ~~Program~~ ~~Manager~~ ~~Engineer~~
PLANNING ADVT.

Date

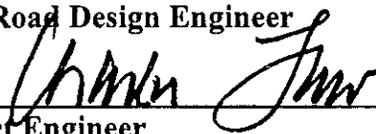
State Environmental/Location Engineer

Date

State Road Design Engineer

2/23/99

Date


District Engineer

Date

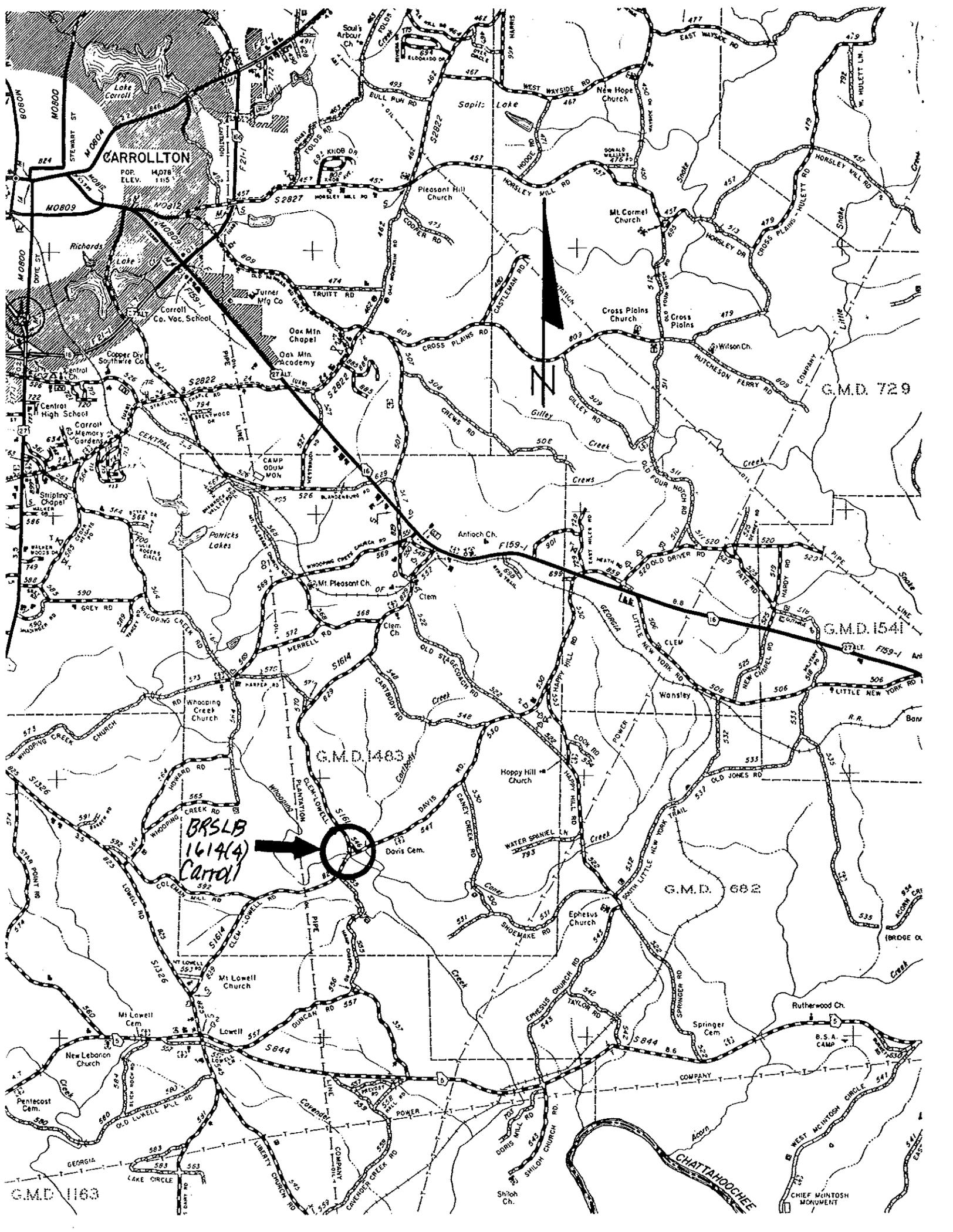
Project Review Engineer

Date

State Traffic Operations Engineer

Date

State Bridge & Structural Engineer



CARROLLTON
POP. 1,478
ELEV. 1,115

G.M.D. 729

G.M.D. 1541

G.M.D. 1483

G.M.D. 682

G.M.D. 1163

**BRSLB
1614(4)
Carol**



CHATTAHOOCHEE

CHIEF MINTOSH MONUMENT