

DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE NH-75-3(188) Cherokee County OFFICE Preconstruction  
P.I. No. 610740 DATE September 29, 1992

*CWH*  
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:

John Lively  
Bob Humphrey  
David Studstill  
Herman Griffin  
George Boulineau  
Darrell Elwell  
Ron Colvin  
Roland Hinners  
Paul Liles  
Felton Rutledge  
FHWA



U.S. Department  
of Transportation  
Federal Highway  
Administration

Georgia Division Office

1720 Peachtree Road, N.W.  
Suite 300  
Atlanta, Georgia 30367

IN REPLY REFER TO:

HB-GA

September 30, 1991

Mr. Hal Rives, Commissioner  
Department of Transportation  
No. 2 Capitol Square  
Atlanta, Georgia 30334

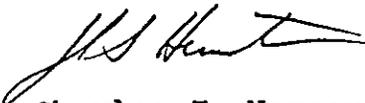
Subject: IR-75-3(188), Cherokee County  
Interchange Improvements  
SR-92 over I-75  
Project Concept Report

Dear Mr. Rives:

We have received the subject Project Concept Report by your route slip dated September 11, 1991. We are returning the Project Concept Report unsigned. We are requesting that the Concept Report be accompanied by a capacity analysis of the future interchange improvement. .-

If there are any questions concerning this request, please contact Ms. Lori Kennedy at 347-3092.

Sincerely yours,

*for*   
Charles J. Nemmers, P.E.  
Division Administrator

Enclosure



U.S. Department  
of Transportation  
Federal Highway  
Administration

Georgia Division Office

GDOT

1720 Peachtree Road, N.W.  
Suite 300  
Atlanta, Georgia 30367

IN REPLY REFER TO:  
HSE-GA

June 16, 1992

Mr. Wayne Shackelford, Commissioner  
Department of Transportation  
No. 2 Capitol Square  
Atlanta, Georgia 30334

Subject: Georgia Project IR-75-3(188), Cherokee County  
Interchange Improvements, SR-92 over I-75  
Project Concept Report

Dear Mr. Shackelford:

Our office received the capacity analysis for the subject project on June 3, 1992 that was requested by our September 30, 1991 letter. We have reviewed the capacity analysis and project concept report. The concept report is approved and enclosed subject to the following items being resolved:

1. The description of the project in the concept report should be changed to reflect the most recent revisions. For example, the bridge is now being widened to accommodate three lanes in the westbound direction and two lanes in the eastbound direction. In addition, dual left turn lanes are now proposed in each direction.
2. We recommend the south side of the bridge be widened to accommodate the dual left movement from the southbound off-ramp to SR-92 eastbound. It should be widened at least an additional 12 feet.

If there are any further concerns that we can assist you with, please contact Ms. Jennifer Kittle at 347-3039.

Sincerely yours,

Charles J. Nemmers, P.E.  
Division Administrator

Enclosure

# DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA

## INTERDEPARTMENT CORRESPONDENCE

FILE NH-75-3(188) Cherokee County OFFICE Preconstruction  
 P.I. No. 610740 DATE July 29, 1992

FROM Hoyt Lively, Jr., P.E., Director of Preconstruction

TO Wayne Shackelford, Commissioner

SUBJECT PROJECT CONCEPT REPORT APPROVAL

This project proposes the improvement of the SR 92 from its intersection with Cowan Road to a point just north of the I-75 interchange, or the beginning point of project STP-165-1(42) Cherokee County, P.I. No. 620940. This project will provide for increased capacity and greater safety in this interchange area. Except for the bridge, the existing SR 92 has two lanes in each direction with a 20' raised median. The bridge has six lanes which provides two thru lanes and a left turn lane in each direction separated by a 4' raised median. Existing ramps have a single lane. Base year traffic is 21,700 VPD (1995) and design year traffic is 36,900 VPD (2015).

Beginning at the Cowan Road intersection, this project will widen all the legs of the intersection to provide the appropriate thru and turn lanes for a signalized intersection. From this intersection to the southbound exit ramp, SR 92 eastbound will be widened to provide two thru lanes and a free flowing right turn lane for the southbound I-75 on ramp traffic. The westbound traffic will have two thru lanes, a left turn lane, and a free flowing right turn lane. A raised median begins at the Cowan Road intersection and will be 4' wide and then transitions to 20' wide at the I-75 southbound on-off ramps. Between the ramps, the bridge will be widened on the south side to provide for three thru traffic lanes for the westbound SR 92 traffic, and dual left turns for the SR 92 to the I-75 southbound on ramp. The eastbound SR 92 traffic will be served by two thru lanes and dual left turn lanes for traffic turning onto the I-75 north on ramp. A raised median, 8' wide, will be constructed across the bridge. From the I-75 northbound off-on ramps eastward to the beginning of project STP-165-1(42), the typical section will provide three thru lanes in each direction separated by a 20' median with the appropriate turning lanes at the intersections with local roads. The two off ramps for I-75 will be widened in order to provide dual left turn lanes onto SR 92. The two on ramps will be widened to accept dual turn lanes from SR 92 and also will have free flow right turn lanes from SR 92.

Wayne Shackelford

Page 2

July 29, 1992

NH-75-3(188) Cherokee County

The estimated costs of this project are:

	PROPOSED	APPROVED	PROG DATE
Construction (includes E&C and inflation)	\$2,374,000	\$ 200,000	FY 94
Right-of-Way	\$2,495,000	No Est	
Utilities	\$ 32,000*		

\*LGPA to be sent after concept approval.

Environmental concerns include: a public hearing will be held; an Environmental Assessment will be prepared; no permits are anticipated; the project will be constructed under traffic; three UST sites will be investigated; no displacements are anticipated.

A previous concept submitted for approval has been revised based on the internal reviews of DOT staff and a review of the capacity analysis by FHWA. I recommend that this concept be approved and that the project be removed from preprogram status and added to the Construction Work Program.

HJL:CWH/cj

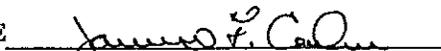
Attachment

CONCUR



G. C. Lewis, State Highway Engineer

APPROVE

  
For: Charles J. Nemmers, FHWA

APPROVE

  
Wayne Shackelford, Commissioner

DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA

RECEIVED

AUG - 7 1991

INTERDEPARTMENT CORRESPONDENCE

FILE IR-75-3 (188) Cherokee County OFFICE Atlanta, Georgia  
P.I. No. 610740  
Interchange Improvements DATE August 6, 1991

FROM Robert E. Humphrey, Project Review Engineer *RE Humph*

TO Hoyt J. Lively, Director of Preconstruction

SUBJECT PROJECT CONCEPT REPORT

We have reviewed the attached Concept Report for this Minor project.

We have received signed cover sheets from the following offices:

Traffic and Safety

Environmental

District Engineer

This report is satisfactory for approval.

The estimated costs of this project are as follows:

Construction	\$1,615,000
Inflation (5% per year) x 2 yrs.	161,500
E & C (10%)	177,650
Preliminary Engineering (5%)	88,830
Right of Way	2,345,000
Utilities	31,452

MJB/jmf

Attachments

c: Roland W. Hinners

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



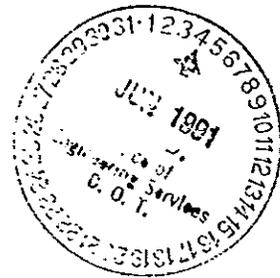
PROJECT CONCEPT REPORT

IR 75-3 (188) CHEROKEE COUNTY  
SR 92 CORRIDOR  
ACWORTH TO WOODSTOCK ROAD

FEDERAL ROUTE NO: I 75  
STATE ROUTE NO: SR 92  
GADOT P.I. NO: 610740

Date of Report: APR- 8-1991

RECOMMENDATION FOR APPROVAL	
<u>May 24, 1991</u> DATE	<u>Walker-Wood</u> State Road & Airport Design Engineer
_____ DATE	_____ State Environmental Engineer
_____ DATE	_____ State Traffic & Safety Engineer
_____ DATE	_____ District Engineer



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

PROJECT CONCEPT REPORT

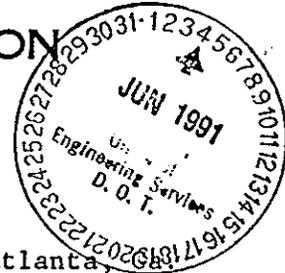
IR 75-3 (188) CHEROKEE COUNTY  
SR 92 CORRIDOR  
ACWORTH TO WOODSTOCK ROAD

FEDERAL ROUTE NO: I 75  
STATE ROUTE NO: SR 92  
GADOT P.I. NO: 610740

Date of Report: APR- 8-1991

RECOMMENDATION FOR APPROVAL	
<u>May 24, 1991</u> DATE	<u>Walton</u> State Road & Airport Design Engineer
_____ DATE	_____ State Environmental Engineer
<u>6/3/91</u> DATE	<u>Ken Colvin</u> State Traffic & Safety Engineer
_____ DATE	_____ District Engineer

DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA



INTERDEPARTMENT CORRESPONDENCE

FILE Project #IR-75-3 (188), Cherokee County  
P.I. No. 610740 OFFICE Atlanta, Ga.  
DATE May 30, 1991

FROM *[Signature]* Ron Colvin, P.E., State Traffic & Safety Engineer

TO Robert E. Humphrey, P.E., Project Review Engineer

SUBJECT Project Concept Report Review

We have reviewed the concept report on the above projects for improvements to the I-75/S.R. 92 Interchange in Cherokee County. Design speed is 45 MPH. The length of project is 0.25 miles.

The existing four lane divided roadway would be widened to a six lane facility, three 12 ft. lanes in each direction with a 20 ft. raised median. The bridge typical section for S.R. 92 over I-75 will provide for a 24 ft. wide center turn lane. The total bridge width is 116 ft. Additional lanes would be constructed along the ramp and improvements made to adjacent roads.

A transportation study was conducted for southwest Cherokee County and it was recommended that improvements be made to the interchange at S.R. 92 and I-75 in Cherokee County. The proposed project would improve the capacity of S.R. 92 and provide a safety benefit for the traveling motorist.

Approval for this concept report is recommended.

RC:LEO:lw

Attachments (signature page)

cc: Walker W. Scott; Felton Rutledge - Cartersville

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



PROJECT CONCEPT REPORT

IR 75-3 (188) CHEROKEE COUNTY  
SR 92 CORRIDOR  
ACWORTH TO WOODSTOCK ROAD

FEDERAL ROUTE NO: I 75  
STATE ROUTE NO: SR 92  
GADOT P.I. NO: 610740

Date of Report: APR- 8-1991

RECOMMENDATION FOR APPROVAL	
<u>May 24, 1991</u> DATE	<u>Walker-Judge</u> State Road & Airport Design Engineer
_____ DATE	_____ State Environmental Engineer
_____ DATE	_____ State Traffic & Safety Engineer
<u>5-30-91</u> DATE	<u>Fulton D. Rault</u> District Engineer

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



PROJECT CONCEPT REPORT

IR 75-3 (188) CHEROKEE COUNTY  
SR 92 CORRIDOR  
ACWORTH TO WOODSTOCK ROAD

FEDERAL ROUTE NO: I 75  
STATE ROUTE NO: SR 92  
GADOT P.I. NO: 610740

Date of Report: APR- 8-1991

RECOMMENDATION FOR APPROVAL	
<u>May 24, 1991</u> DATE	<u>Walker</u> State Road & Airport Design Engineer
<u>May 31, 1991</u> DATE	<u>Frank L. Oumbert</u> State Environmental Engineer
_____ DATE	_____ State Traffic & Safety Engineer
_____ DATE	_____ District Engineer

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

PROJECT CONCEPT REPORT

IR 75-3 (188) CHEROKEE COUNTY  
SR 92 CORRIDOR  
ACWORTH TO WOODSTOCK ROAD

FEDERAL ROUTE NO: I 75  
STATE ROUTE NO: SR 92  
GADOT P.I. NO: 610740

Rev. 6-25-92  
Date of Report: APR- 8-1991

RECOMMENDATION FOR APPROVAL

May 24, 1991  
DATE

Walter A. Smith  
State Road & Airport Design Engineer

\_\_\_\_\_  
DATE

\_\_\_\_\_  
State Environmental Engineer

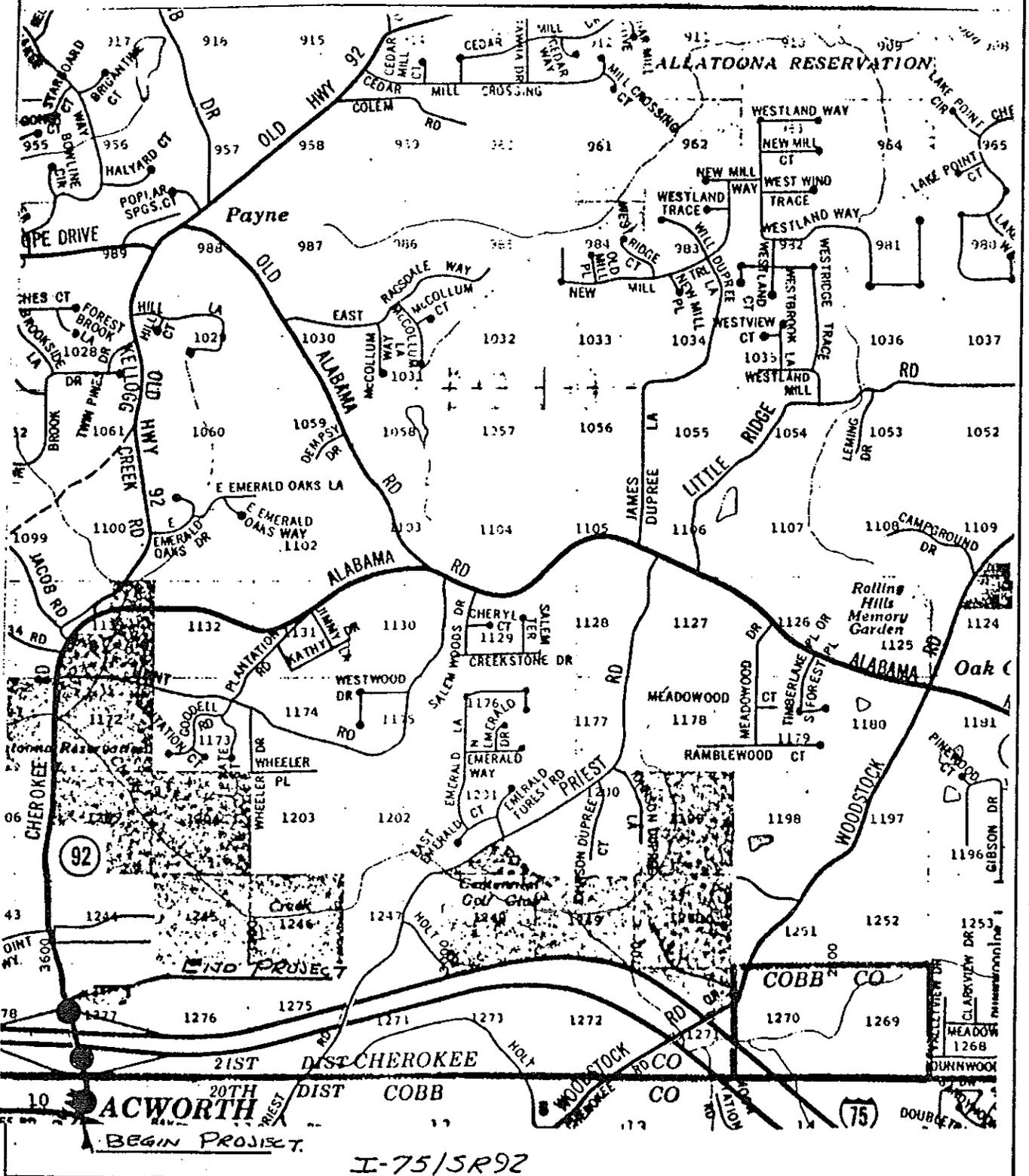
\_\_\_\_\_  
DATE

\_\_\_\_\_  
State Traffic & Safety Engineer

\_\_\_\_\_  
DATE

\_\_\_\_\_  
District Engineer

PROJECT MAP - Project No. : IR-75-3(188)



I-75/SR92

PROJECT NUMBER: 3(188)

PROJECT LOCATION & DESCRIPTION
<p>PROJECT IR-75-3(188) REFLECTS IMPROVEMENTS TO THE INTERCHANGE AT SR 92 AND I-75 IN CHEROKEE COUNTY. IT IS PROPOSED TO WIDEN SR 92 TO THREE (3) LANES IN EACH DIRECTION WITH A 20 FOOT RAISED MEDIAN. THE BRIDGE ON SR 92 OVER I-75 WILL BE WIDENED TO A TOTAL WIDTH OF 124 FEET TO ACCOMODATE PROPOSED ROADWAY SECTION, DUAL TURN LANES, AND 10 FOOT SHOULDERS. TWO (2) ADDITIONAL LANES WILL BE ADDED TO THE 4 EXISTING RAMPS TO ACCOMODATE DUAL LEFT-TURN MOVEMENTS, AND IMPROVEMENTS WILL BE MADE TO ADJACENT ROADS TO IMPROVE TRAFFIC CIRCULATION.</p> <p>PROJECT LENGTH: 0.025 MILES</p>

TRAFFIC			
CURRENT		PROJECTED	
YEAR	AADT	YEAR	AADT
<u>1995</u>	<u>21700</u>	<u>2015</u>	<u>36900</u>

PDP CLASSIFICATION	FUNCTIONAL CLASSIFICATION
EXISTING MINOR	RURAL MINOR ARTERIAL

PROJECT NEED & PURPOSE
<p>DUE TO THE RECENT GROWTH IN SOUTHWEST CHEROKEE COUNTY, A TRANSPORTATION STUDY WAS CONDUCTED TO ASSESS THE GROWTH POTENTIAL OF THE AREA. A PROGRAM FOR TRANSPORTATION IMPROVEMENTS TO MEET THE NEEDS OF THE GROWTH WAS A RESULT OF THIS STUDY. AMONG OTHER PROJECTS, THIS STUDY SUPPORTED THE RECOMMENDATION THAT IMPROVEMENTS BE MADE TO THE INTERCHANGE AT SR 92 AND I-75 IN CHEROKEE COUNTY. THE PROPOSED PROJECT WILL IMPROVE THE CAPACITY OF SR 92, PROVIDE A SAFER ENVIRONMENT FOR THE MOTORIST, AND REDUCE CONGESTION.</p>

**EXISTING ROADWAY**

TYPICAL SECTION: 4 LANES DIVIDED/20 FOOT MEDIAN R/W WIDTH  
100 FT

POSTED SPEED MAX DEGREE OF CURVE MAX GRADE  
45 MPH 6.00 DEG. 6.00 %

MAJOR STRUCTURES:

1. BRIDGE OVER I-75, 120' X 370'

2.

3.

**PROPOSED ROADWAY**

TYPICAL SECTION: SIX LANE URBAN DIVIDED SEC. THREE LANES EACH  
DIRECTION/20 FOOT RAISED MEDIAN

DESIGN SPEED MAX DEGREE OF CURVE; MAX GRADE;  
45 MPH ALLOWABLE: 7.00 DEG. ALLOWABLE: 5.50 %  
PROPOSED: 6.00 DEG. PROPOSED: 5.50 %

MAJOR STRUCTURES: BRIDGE OVER I-75

**PROPOSED RIGHT OF WAY**

R/W WIDTH  
120 FT

DISPLACEMENTS

RES.: 0 BUS.: 0 M.H.: 0

TYPE OF ACCESS CONTROL: ACCESS BY PERMIT AND LIMITED ACCESS

**COORDINATION**

CONCEPT TEAM MEETING DATE: FEB 28, 1991

LOCATION INSPECTION DATE: NONE

PERMITS REQUIRED (4f, COE, 404, etc.): NONE

LEVEL OF PUBLIC INVOLVEMENT: A PUBLIC HEARING WILL BE HELD

TIME SAVING PROCEDURES APPROPRIATE: NO

OTHER PROJECT IN THE AREA: FR-165-(42)

**MISCELLANEOUS**

TRAFFIC CONTROL DURING CONSTRUCTION: PROJECT WILL BE CONSTRUCTED  
UNDER TRAFFIC

LEVEL OF ENVIRONMENTAL ANALYSIS: EA

DESIGN VARIATIONS REQUIRED: NONE ANTICIPATED

UNDERGROUND STORAGE TANKS: 3 SITES WILL BE INVESTIGATED

HAZARDOUS WASTE SITES: A SOIL SURVEY WILL BE REQUIRED

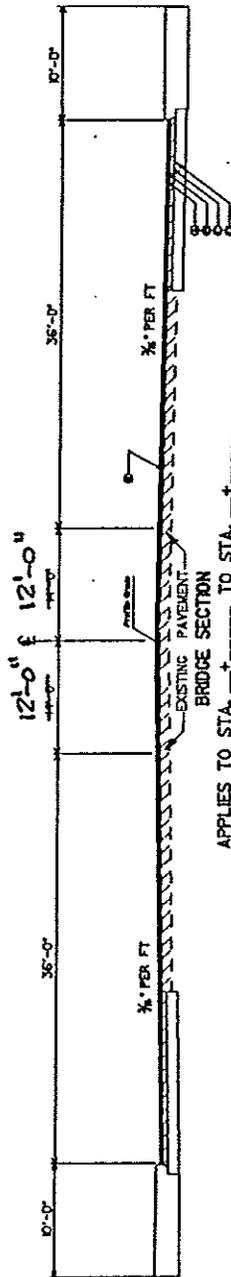
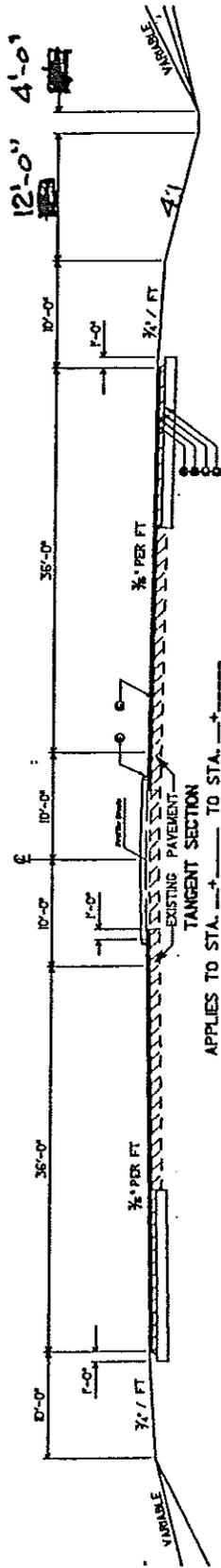
**ALTERNATIVES CONSIDERED**

1. NO BUILD.

NO IMPROVEMENTS WILL BE MADE TO THE EXISTING FACILITY

DATE	BY	CHKD

R 75-3088) CHEROKEE CO.



ESTIMATED COST	
CONSTRUCTION: \$ 1,961,343	RIGHT-OF-WAY: \$ 2,495,000
E & C (10) : \$ 196,134	ACQUIRED BY: D.O.T.
INFLATION : \$ 215,748	UTITLITES : \$ 31,452
	ADJUSTED BY: LGPA
TOTAL CONSTRUCTION COST: \$ 2,373,225	

COMMENTS:

ATTACHMENTS: SKETCH MAP; TYPICAL SECTION; COST ESTIMATES; CONCEPT MINUTES