

ORIGINAL TO GENERAL FILES

D.O.T. 66

**DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA**

**INTERDEPARTMENT CORRESPONDENCE**

**FILE** STP-0000-00(310) Lanier County **OFFICE** Preconstruction  
P.I. No. 0000310 **DATE** July 27, 2001  
*CWHutto*  
**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  
David Crim  
BOARD MEMBER

**DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA**

**INTERDEPARTMENT CORRESPONDENCE**

**FILE** STP-0000-00(310) Lanier County **OFFICE** Preconstruction  
P.I. No. 0000310

**DATE** July 19, 2001

**FROM**  C. Wayne Hutto, P.E., Assistant Director of Preconstruction

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

**SUBJECT** PROJECT CONCEPT REPORT

This project is the realignment of SR 11/US 129 and SR 31, 122/US 221 at the SR 37 intersection located in Lanier County, 2.0 miles east of Lakeland. Each of these routes consists of two, 12' lanes with rural shoulders and posted speed limits of 55 MPH. State Route 11/US 129 and SR 31, 122/US 221 currently intersects SR 37 approximately 1,300' apart at skewed "Y" intersections. The purpose of this project is to address local concerns over the high speed heavy trucks traveling through the intersections. There were nine (9) accidents within the project limits from 1995 to 1998. Approximately 90% of the total accidents for 1995-1998 involved a turning movement. Traffic is projected to be 7,000 and 11,400 VPD in the years 2008 and 2028 respectively.

The construction proposes to realign SR 11/US 129 and SR 31, 122/US 221 to create a 90° intersection with SR 37. Left and right turn lanes will be provided with 6.5' paved shoulders for bicycle access along the bike and pedestrian network. This project is located on the state's bike and pedestrian network, Southern Crossing Route 10. The improvements will be approximately 2.0 miles and constructed on new location. A traffic signal will be required at this location. Traffic will be maintained on the existing roadway, via staging, during construction.

Environmental concerns include requiring a COE 404 permit; a Categorical Exclusion be prepared; a public information meeting will be held; 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)	\$1,641,000	\$360,000	2006	02-07
Right-of-Way	\$ 34,000	----		
Utilities*	\$ 25,000	----		

\*LGPA will be sent.

Frank L. Danchetz  
Page 2

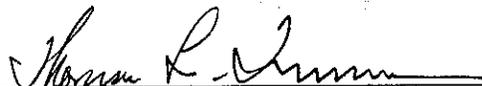
STP-0000-00(310) Lanier  
July 19, 2001

This project is in the STIP. I recommend this project concept be approved and Alternative #1 be implemented.

CWH:JDQ/cj

Attachment

CONCUR



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

APPROVE



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

DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA

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INTERDEPARTMENTAL CORRESPONDENCE

**FILE:** STP-0000-00(310) Lanier  
P.I. Number 0000310

**OFFICE:** Engineering Services

**DATE:** July 6, 2001

**FROM:** David Mulling, <sup>DM</sup> Project Review Engineer

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

**SUBJECT: CONCEPT REPORT**

We have reviewed the concept report submitted June 21, 2001 by the letter from Zane G. Hutchinson dated June 19, 2001, and have the following comment:

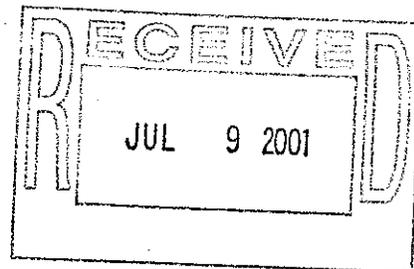
1. The estimated quantities and unit costs need to be shown in the concept cost estimate. The estimate can not be verified without this information.

The costs for the project are:

Construction	\$1,421,000
Inflation	\$ 71,000
E&C	\$ 149,000
Reimbursable Utilities	\$ 25,000
Right of Way	\$ 34,000

DTM

c: Zane Hutchinson



## SCORING RESULTS AS PER MOG 2440-2

<b>Project Number:</b> STP-0000-00(310)		<b>County:</b> LANIER		<b>PI No.:</b> 0000310	
<b>Report Date:</b> 6/19/01		<b>Concept By:</b> DOT Office: DISTRICT 4			
<input checked="" type="checkbox"/> CONCEPT		Consultant: N/A			
<b>Project Type:</b> Choose One From Each Column		<input checked="" type="checkbox"/> Major <input type="checkbox"/> Minor	<input type="checkbox"/> Urban <input checked="" type="checkbox"/> Rural	<input type="checkbox"/> ATMS <input type="checkbox"/> Bridge <input type="checkbox"/> Building <input type="checkbox"/> Interchange <input checked="" type="checkbox"/> Intersection Improvement <input type="checkbox"/> Interstate <input type="checkbox"/> New Location <input type="checkbox"/> Widening & Reconstruction <input type="checkbox"/> Miscellaneous	
<b>FOCUS AREAS</b>	<b>SCORE</b>	<b>RESULTS</b>			
<b>Presentation</b>	90%	Need estimated quantities and unit costs for determining cost of item of work			
<b>Judgement</b>	100%				
<b>Environmental</b>	100%				
<b>Right of Way</b>	100%				
<b>Utility</b>	100%				
<b>Constructability</b>	100%				
<b>Schedule</b>	100%				

DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE STP-0000-00(310), Lanier County  
P.I. No. 0000310

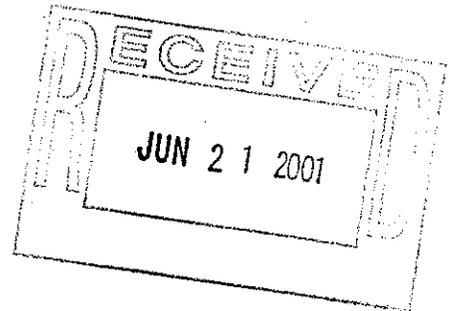
OFFICE Tifton, GA

DATE June 19, 2001

FROM Zane G. Hutchinson, District Design Engineer 

TO Wayne Hutto, Assistant Director of Preconstruction

SUBJECT **Project Concept Report**



Attached is the original copy of the Concept Report for your further handling for approval in accordance with the Plan Development Process (PDP).

ZGH:HJB;jb

Attachments

cc:

David Mulling, Project Review Engineer  
Harvey Keeper, State Environmental/Location Engineer  
Marion Waters, State Traffic Operations Engineer  
Marta Rosen, State Transportation Planning Administrator  
Herman Griffin, State Transportation Programming Engineer

File

18 June, 2001

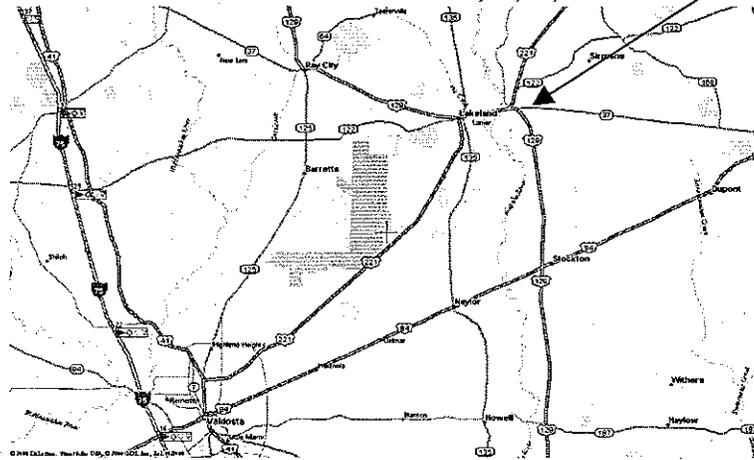
State of Georgia  
Department of Transportation

Project Concept Report Page: 1  
Project Number: STP-0000-00(310)  
P. I. Number: 0000310  
County: Lanier

**DEPARTMENT OF TRANSPORTATION**  
**STATE OF GEORGIA**  
*District 4 - Tifton, Ga.*

Project Number: STP-0000-00(310)  
County: Lanier  
P. I. Number: 0000310

Federal Route Number: F 23-1  
State Route Number: 11,31,37,122



Recommended for approval:

DATE: 06/19/01

DATE: 6/19/01

*Eane S. Johnson*  
Project Manager  
*[Signature]*  
District Engineer

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: \_\_\_\_\_

\_\_\_\_\_  
State Transportation Programming Engineer

DATE: \_\_\_\_\_

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

DATE: \_\_\_\_\_

\_\_\_\_\_  
State Traffic Operations Engineer

DATE: \_\_\_\_\_

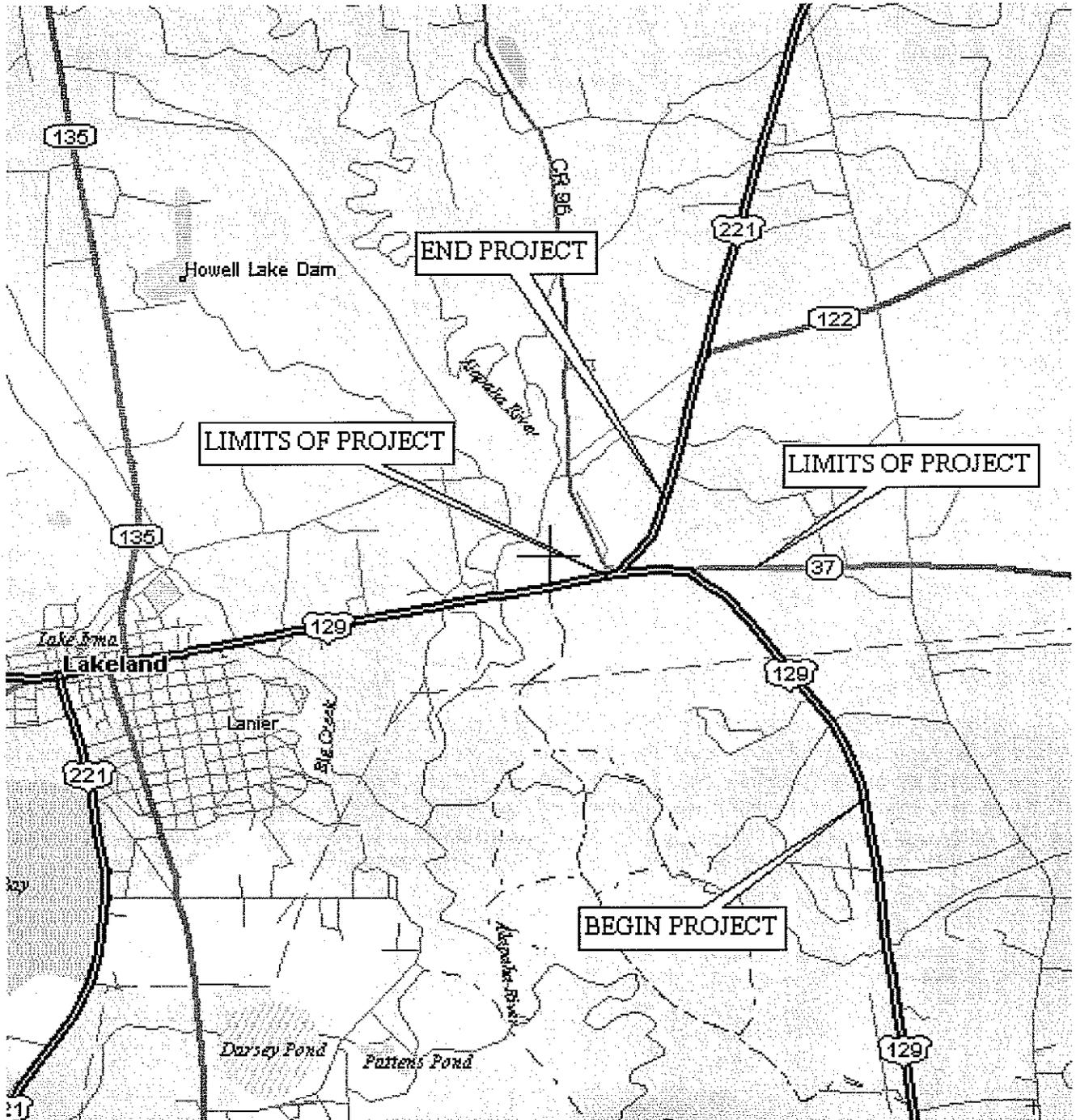
\_\_\_\_\_  
Project Review Engineer

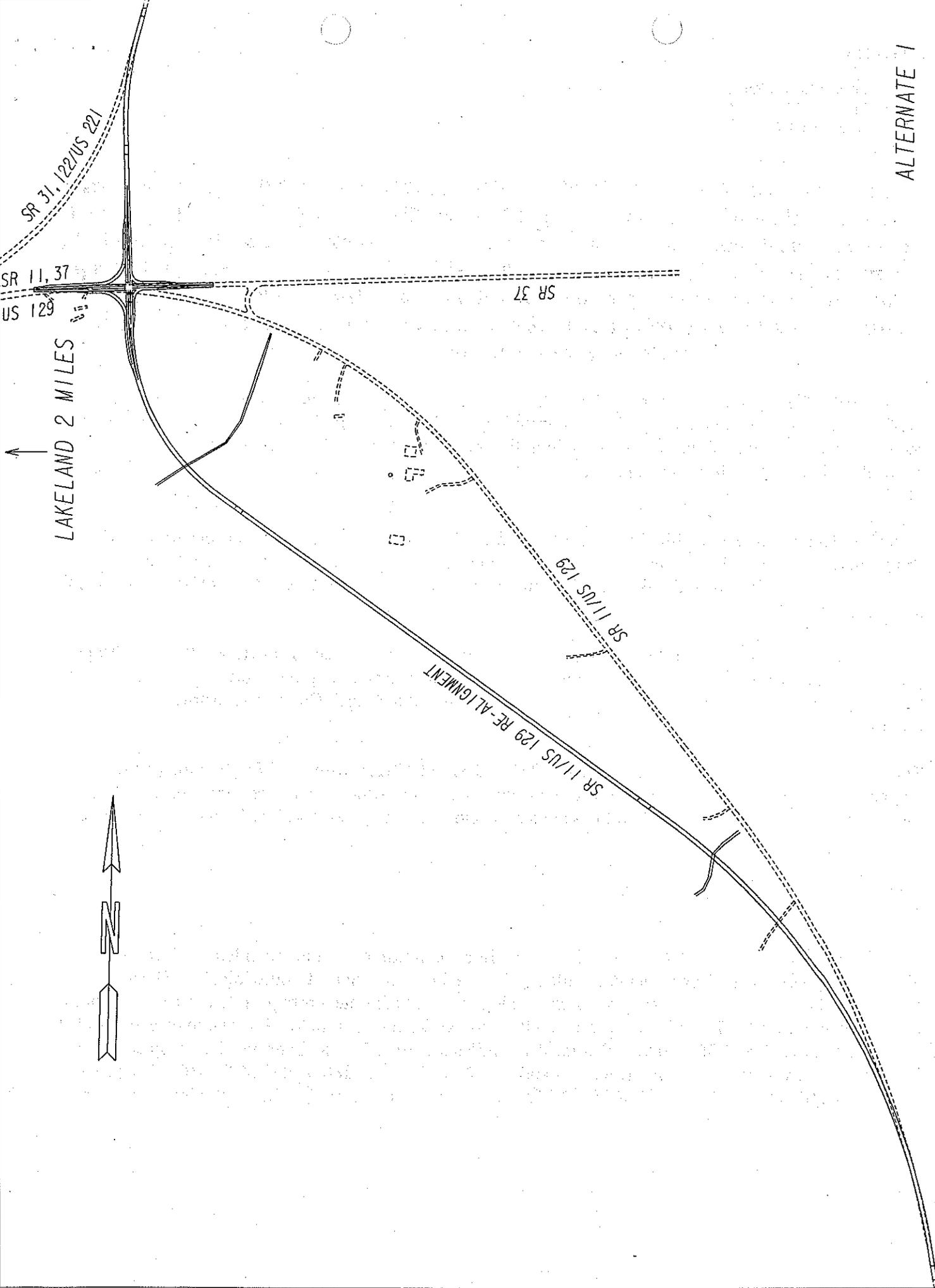
19 June, 2001

State of Georgia  
Department of Transportation

Project Concept Report Page: 2  
Project Number: STP-0000-00(310)  
P. I. Number: 0000310  
County: Lanier

## LOCATION SKETCH





ALTERNATE 1

SH 1 OF 2

19 June, 2001

State of Georgia  
Department of Transportation

Project Concept Report Page: 3  
Project Number: STP-0000-00(310)  
P. I. Number: 0000310  
County: Lanier

**Need and Purpose: Project STP-0000-00 (310) consists of intersection improvements at the intersections of State Routes 11 and 31 with SR-37. The purpose of the project is to address local concerns over the high speeds heavy trucks are traveling through the intersections. West of the intersections, the 1998 traffic volume was 5,900 vehicles per day, and north of the intersection, the volume was 3,100 vehicles per day. Truck traffic account for approximately 15% of traffic volumes. This project will not affect the roadway capacity or level of service.**

The project will realign the junction of SR-11/US-129 with SR-37 and the junction of SR-31/US-221 with SR-37. The typical section at the project's termini is a two-lane roadway that ties into the two-lane typical section of the existing roadway. Land use within the project limit consists mostly of residential and undeveloped property. There is one parcel of commercial property at the junction of SR-31/US-221 into SR-37.

There were nine accidents within the project limits from 1995 to 1998. Four accidents occurred in 1995 and there were two accidents in each of the years 1996 and 1997. With 61% of the 1998 accidents recorded, one accident was identified. Approximately 90% of the total accidents for 1995-1998 involved a turning movement.

This project has independent utility. However, it is contiguous with project STP-M000-00 (345). Project M000-00 (345) is a maintenance project to widen, level, resurface and build the shoulders on SR-37 beginning at SR-11 in Lanier County and extending to SR-38 in Clinch County. Construction is programmed for 2001.

The realignment of the junctions of SR-31/US-221 and SR-11/US129 with SR-37 will eliminate the tangential skew at each intersection and cause turning vehicles to slow/stop before completing the turn movement. This project is located on the state's bike and pedestrian network, Southern Crossing Route 10.

**Description of the project:** The proposed project will be approximately 2 miles in length. The re-alignment of SR 11/US 129 will begin at mile log 11.8 and continue north to mile log 13.7. The re-alignment of SR 31,122/US 221 will begin at mile log 10.1 and continue north to mile log 10.8. The limits of construction for SR 37 will begin at mile log 8.1 and extend east to mile log 8.6. The intersection of SR 31/US 221 at SR 37 and SR 11/US 129 is located 2 miles east of Lakeland Georgia. This project is located in Lanier County, in the 11th Land District, Land Lots 479-480, 487- 488, and G.M.D. 586. This project will re-align SR 11,31/US 129,221 at SR 37,122 to remove the curved approaches to the intersection and create a 90 degree crossing.

19 June, 2001

State of Georgia  
Department of Transportation

Project Concept Report Page: 4  
Project Number: STP-0000-00(310)  
P. I. Number: 0000310  
County: Lanier

Is the project located in a Non-attainment area?  Yes  No

PDP Classification: MINOR

PROJECT DESIGNATION: Full Oversight , Exempt , State Funded , or Others

Functional Classification: Rural Minor Arterial

U. S. Route Number(s): 129,221

State Route Number(s): 11,31,37,122

Traffic (AADT):

Current Year: (2008) 7000

Design Year: (2028) 11,400

**Existing Design Features:**

- Typical Section: 2-12' lanes rural, graded shoulders, open ditches
- Posted Speed 55 mph
- Maximum Grade: 2 %
- Width of right of way: 100 ft.
- Major structures: None
- Major interchanges or intersections along the project: US 129 @ US 221
- Existing length of roadway segment and the beginning mile logs for each county segment. For new location projects, the existing length of roadway is zero(0). 1.9 miles – Beginning Mile log 11.8 Lanier County.

**Proposed Design Features:**

- Proposed typical section(s): 2-12' lanes rural, graded shoulders(2ft paved), open ditches
- Proposed Design Speed Mainline 55 mph
- Proposed Maximum grade Mainline 2 % Maximum grade allowable 4 %
- Proposed Maximum grade Side Street 2 % Maximum grade allowable 4 %
- Proposed Maximum grade driveway 10 %
- Proposed Maximum degree of curve 4°30' Maximum degree allowable 5°45'
- Right off way
  - ⇒ Width 100
  - ⇒ Easements: Temporary , Permanent , Utility , Others
  - ⇒ Type of access control: Full , Partial , By Permit , Others
  - ⇒ Number of parcels 4 Number of displacements:
    - ⇒ Business: none
    - ⇒ Residents: none
    - ⇒ Mobile homes: none
    - ⇒ Others: none
- Structures:
  - ⇒ Bridges: none
  - ⇒ Retaining walls: none

19 June, 2001

Project Concept Report Page: 5  
Project Number: STP-0000-00(310)  
P. I. Number: 0000310  
County: Lanier

- Major intersections and interchanges: US 129 @ US 221
- Traffic control during construction: Traffic maintained during construction by staging.
- Design Exceptions to controlling criteria anticipated:

	<u>UNDETERMINED</u>	<u>YES</u>	<u>NO</u>
HORIZONTAL ALIGNMENT:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
ROADWAY WIDTH:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SHOULDER WIDTH:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
VERTICAL GRADES:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
CROSS SLOPES:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
STOPPING SITE DISTANCE:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SUPERELEVATION RATES:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
HORIZONTAL CLEARANCE	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SPEED DESIGN:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
VERTICAL CLEARANCE:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
BRIDGE WIDTH:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
BRIDGE STRUCTURAL CAPACITY:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

- Design Variances: none
- Environmental concerns: Wetlands (4 sites, 2 impacts)
- Level of environmental analysis:
  - ⇒ Are Time Saving Procedures appropriate? Yes , No
  - ⇒ Categorical Exclusion:
  - ⇒ Environmental Assessment/Finding of No Significant Impact (FONSI) , or
  - ⇒ Environmental Impact Statement (EIS) .
- Utility involvement: Power, Telephone, Underground Gas

**Project responsibilities:**

- ⇒ Design, GDOT
- ⇒ Right of Way Acquisition, GDOT
- ⇒ Relocation of Utilities, Utility Owners/GDOT
- ⇒ Letting to contract, GDOT
- ⇒ Supervision of construction, GDOT
- ⇒ Providing material pits, Contractor
- ⇒ Providing detours. N/A

**Coordination:**

- Concept Meeting            Date 6-8-2001
- Public involvement: None
- Local government comments: None
- Other projects in area: None
- Other coordination to date: None

19 June, 2001

State of Georgia  
Department of Transportation

Project Concept Report Page: 6  
Project Number: STP-0000-00(310)  
P. I. Number: 0000310  
County: Lanier

### Scheduling – Responsible Parties' Estimate

- Time to complete environmental process: 9 Months.
- Time to complete preliminary construction plans: 9 Months.
- Time to complete right of way plans: 2 Months.
- Time to complete the Section 404 Permit: 9 Months.
- Time to complete final construction plans: 8 Months.
- Time to complete to purchase right of way: 8 Months.

**Other alternates considered:** Alternate 1 will realign SR 11,31,122/US 129, 221 at SR 37 with a 90 degree intersection. Alternate 2 would realign SR 11,31,122/US 129,221 at SR 37 with offset intersections. With Alternate 2, the length and cost of the project would be reduced. Alternate 3 is no-build. Realizing a strong need to improve safety at this location, Alternate 3 was not considered. Safety would be compromised with Alternate 2, therefor the Concept Team recommends Alternate 1.

### Comments:

### Attachments:

1. Cost Estimates:
  - a) Construction including E&C,
  - b) Right of Way, and
  - c) Utilities.
2. Typical Sections
3. Accident summaries
4. Capacity analysis
5. Concept Meeting Sign in Sheet
6. Minutes of Concept meetings
7. Location and Design Notice
8. Traffic Diagrams
9. Project and Intersection Sketch

Concur:

Director of Preconstruction

Approve:

Chief Engineer

*Handwritten signature*  
//

# PRELIMINARY COST ESTIMATE

PROJECT NO.	STP-0000-00(310)	COUNTY:	Lanier
P. I. NO.	0000310		
DATE:	6/12/2001	ESTIMATED LETTING DATE:	02-07
PREPARED BY:	Jeff Bridges		
( )	PROGRAM PROCESS	(X)	CONCEPT DEVELOPMENT
( )	DURING PROJECT DEVELOPMENT		
<b>PROJECT COST</b>			
<b>A. RIGHT OF WAY</b>			
1. PROPERTY (Land & Easement)		\$	25,800.00
2. DISPLACEMENTS (RES:0, BUS: 0, M.H.: 0)		\$	
3. OTHER COSTS (ADM./COST INFLATION)		\$	8,000.00
<b>SUBTOTAL: A</b>		<b>\$</b>	<b>33,800.00</b>
<b>B. REIMBURSABLE UTILITIES</b>			
1. RAILROAD		\$	
2. TRANSMISSION LINES		\$	
3. SERVICES		\$	25,000.00
<b>SUBTOTAL: B</b>		<b>\$</b>	<b>25,000.00</b>
<b>C. CONSTRUCTION</b>			
<b>1: MAJOR STRUCTURES</b>			
a. BRIDGES		\$	
b. OTHERS (Double 5 x 4 Box Culvert)		\$	35,800.00
<b>SUBTOTAL: C-1</b>		<b>\$</b>	<b>35,800.00</b>
<b>2. GRADING &amp; DRAINAGE</b>			
a. EARTHWORK		\$	275,000.00
b. DRAINAGE:			
1) Cross Drain Pipe		\$	36,000.00
2) Curb & Gutter		\$	
3) Longitudinal System (including catch basins)		\$	
<b>SUBTOTAL: C-2</b>		<b>\$</b>	<b>311,000.00</b>
<b>3. BASE &amp; PAVING</b>			
a. AGGREGATE BASE		\$	
b. ASPHALT PAVING			
1) Surface		\$	107,200.00
2) Binder		\$	127,000.00
3) Base		\$	511,600.00
c: CONCRETE PAVING		\$	
d. OTHERS (Leveling and Tack Coat)		\$	7,000.00
<b>SUBTOTAL: C-3</b>		<b>\$</b>	<b>752,800.00</b>

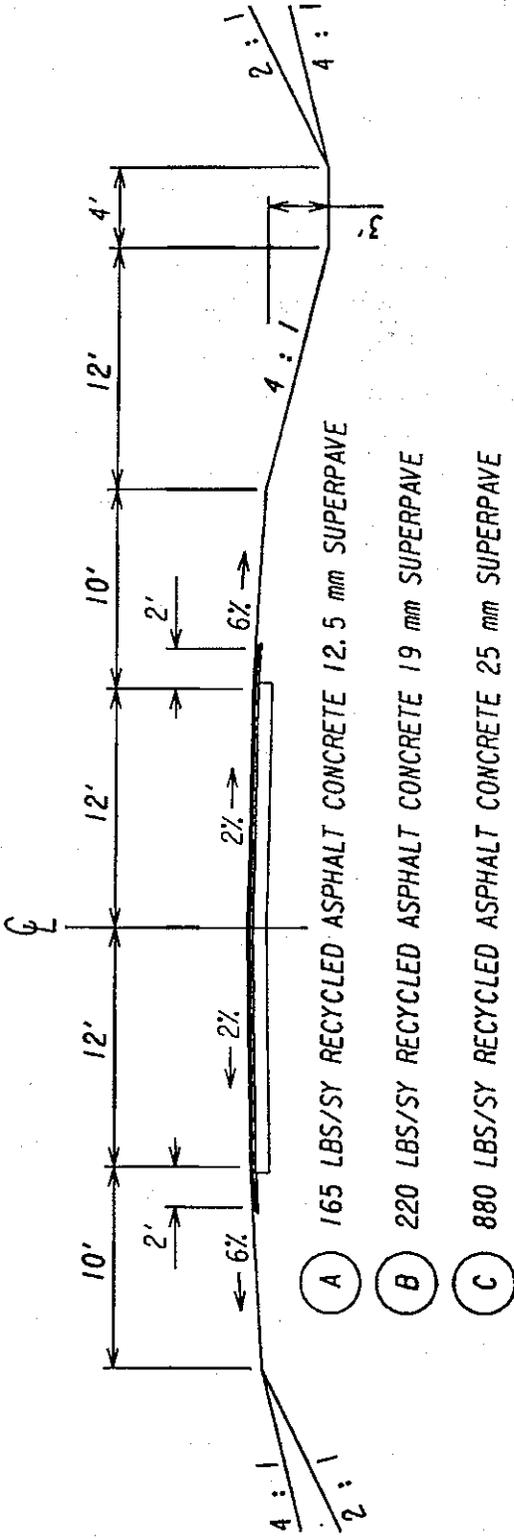
<b>4. LUMP SUM</b>		
a. GRASSING	\$ 30,000.00	
b. CLEARING & GRUBBING	\$ 36,000.00	
c. LANDSCAPING	\$	
d. EROSION CONTROL	\$ 125,000.00	
e. TRAFFIC CONTROL	\$ 90,000.00	
f. REMOVAL OF EXISTING BRIDGE	\$	
g. CONSTRUCT, MAINT., & REMOVE DETOUR STRUCTURE	\$	
<b>SUBTOTAL: C-4</b>		<b>\$ 281,000.00</b>
<b>5. MISCELLANEOUS</b>		
a. LIGHTING	\$	
b. SIGNING & MARKING	\$ 40,000.00	
c. GUARDRAIL	\$	
d. SIDEWALK	\$	
<b>SUBTOTAL: C-5</b>		<b>\$ 40,000.00</b>
<b>6. SPECIAL FEATURES</b>		
	\$	
<b>SUBTOTAL: C-6</b>		<b>\$</b>

## ESTIMATE SUMMARY

<b>A. RIGHT OF WAY</b>		\$	33,800.00	
<b>B. REIMBURSABLE UTILITIES</b>		\$	25,000.00	
<b>C. CONSTRUCTION</b>				
1. MAJOR STRUCTURES		\$	35,800.00	
2. GRADING & DRAINAGE		\$	311,000.00	
3. BASE & PAVING		\$	752,800.00	
4. LUMP ITEMS		\$	281,000.00	
5. MISCELLANEOUS		\$	40,000.00	
6. SPECIAL FEATURES		\$		
<b><i>SUBTOTAL CONSTRUCTION COST</i></b>				<b>\$ 1,420,600.00</b>
E & C (10%)				\$ 142,060.00
INFLATION (5% PER YEAR)		NUMBER OF YEARS	1	\$ 78,133.00
<b><i>TOTAL CONSTRUCTION COST</i></b>				<b>\$ 1,640,793.00</b>
<b><i>GRAND TOTAL PROJECT COST</i></b>				<b>\$ 1,699,593.00</b>

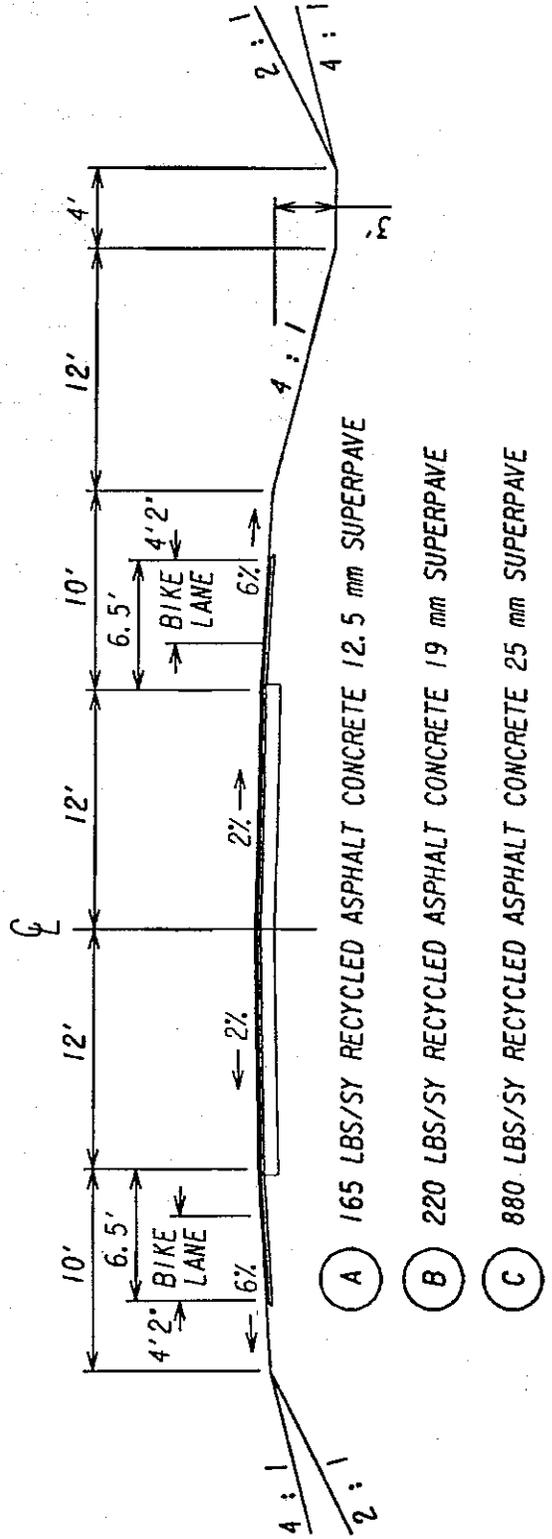
# TYPICAL SECTION

CONSTR.



SR 11, 37/US129

CONSTR.

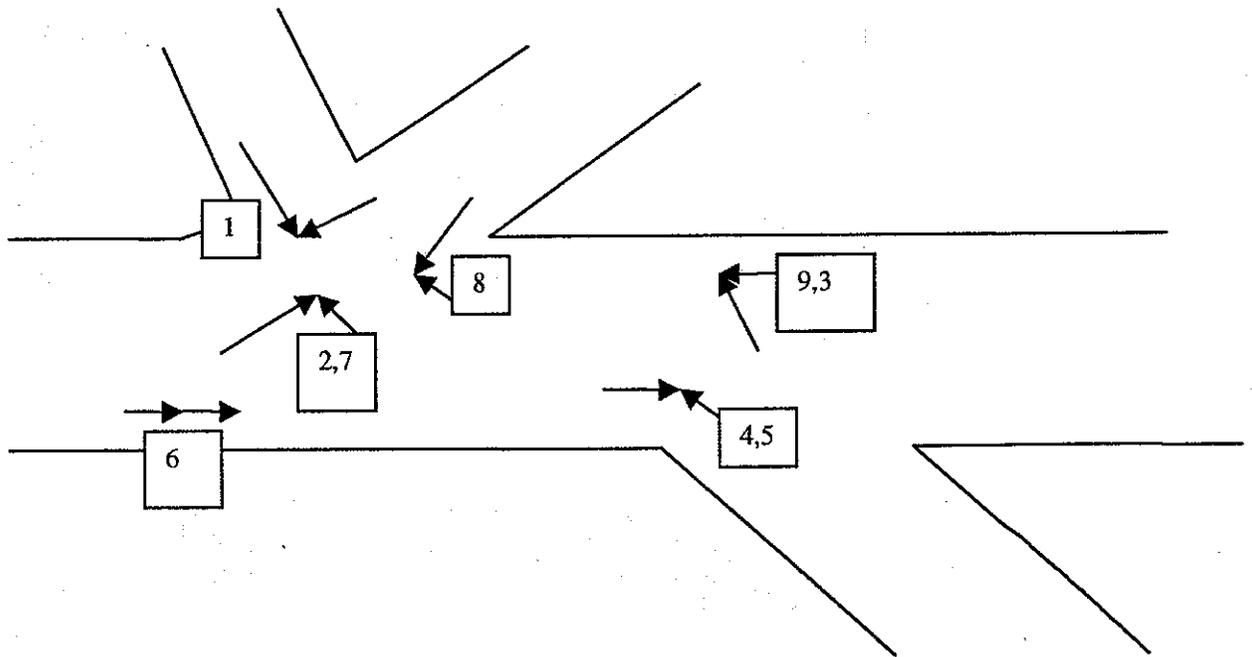


SR 31, 122/US 221

**COLLISION DIAGRAM**  
**SR 37 From SR 31 To SR 11**  
**Lanier County**

Ref No	DATE	TIME	FATAL	INJURY	TYPE ACCIDENT
1	7/28/95	1:50 PM	0	0	Angle Intersection
2	5/26/95	9:55PM	0	2	Angle Intersection
3	12/30/95	3:14 PM	0	0	Angle Intersection
4	1/6/95	4:35 PM	0	0	Angle Intersection
5	9/29/96	9:55 PM	0	2	Head on
6	6/14/96	9:07 PM	0	0	Rear End
7	3/12/97	4:23 PM	0	1	Angle Intersection
8	1/28/97	2:58 PM	0	1	Angle Intersection
9	2/5/98	1:36 PM	0	2	Angle Intersection

1995 THRU 1998





DEPARTMENT OF TRANSPORTATION  
OFFICE OF TRAFFIC AND SAFETY  
ACCIDENTS LISTING

CASE	DATE	TIME	COU	TP	ROUTE	MILE	INT RD TYPE	INT RD SECT	F	I	V	I	C	TYPE	ACCIDENT	LOC	LI	SUR	D1	D2	VM1	VM2
7	70810096	03/12/97	16:23	173	SR	31	10.02	CR	96	07	00	01	01	ANGLE INTERSECTING	ON ROADWAY	1	1	DRY	S	E	05	05
8	70320886	01/28/97	14:58	173	SR	31	10.02	CR	96	08	00	01	01	ANGLE INTERSECTING	ON ROADWAY	1	1	DRY	W	N	01	05
REPORT TOTALS.....		ACCIDENTS: 2		FATALITIES: 0		INJ-VISIBLE: 0		INJ-COMP: 2														
PAGE TOTALS.....		ACCIDENTS: 2		FATALITIES: 0		INJ-VISIBLE: 0		INJ-COMP: 2														

DEPARTMENT OF TRANSPORTATION  
OFFICE OF TRAFFIC AND SAFETY  
ACCIDENTS LISTING

CASE	DATE	TIME	COU	TP	ROUTE	MILE	INT RD	INT RD	RAMP SECT	F	I-V	I-C	TYPE ACCIDENT	LOC	LI	SUR	D1	D2	VM1	VM2
5 62390368	09/29/96	21:55	173	SR	11	13.31	SR	37	05	0	02	00	HEAD ON	ON ROADWAY	5	WET	E	N	05	04
<del>62770201</del>	<del>10/01/96</del>	<del>16:33</del>	<del>173</del>	<del>SR</del>	<del>11</del>	<del>13.31</del>	<del>SR</del>	<del>37</del>	0	0	00	00	STRUCK OBJECT	ON SHOULDER	1	WET	N	0	05	00
6 61490324	06/14/96	21:07	173	SR	11	13.55	SR	31	06	0	00	00	REAR END	ON ROADWAY	4	WET	E	E	05	04
60730236	03/25/96	16:45	173	SR	11	<del>13.57</del>			0	0	00	00	OVERTURNED	OFF ROADWAY	1	WET	N	0	05	00

REPORT TOTALS..... ACCIDENTS: 4 FATALITIES: 0 INJ-VISIBLE: 2 INJ-COMP: 0

PAGE TOTALS..... ACCIDENTS: 4 FATALITIES: 0 INJ-VISIBLE: 2 INJ-COMP: 0

DEPARTMENT OF TRANSPORTATION  
OFFICE OF TRAFFIC AND SAFETY  
ACCIDENTS LISTING

CASE	DATE	TIME	COU	TP	ROUTE	MILE	INT RD TYPE	INT RD	RAMP SECT	F I-V	I-C	TYPE ACCIDENT	LOC	LI	SUR	D1	D2	VM1	VM2	
(3) 52930306	12/30/95	15:14	173	SR	11	(2) 13.31	SR	37	03	0	00	00	ANGLE INTERSECTING	ON ROADWAY	1	W	N	01	05	3
(4) 50220900	01/06/95	16:35	173	SR	11	(2) 13.31	SR	37	04	0	00	00	ANGLE INTERSECTING	ON ROADWAY	1	W	E	01	05	4

REPORT TOTALS..... ACCIDENTS: 2      FATALITIES: 0      INJ-VISIBLE: 0      INJ-COMP: 0

PAGE TOTALS..... ACCIDENTS: 2      FATALITIES: 0      INJ-VISIBLE: 0      INJ-COMP: 0

DEPARTMENT OF TRANSPORTATION  
OFFICE OF TRAFFIC AND SAFETY  
ACCIDENTS LISTING

CASE	DATE	TIME	COU	TP	ROUTE	MILE	INT RD	INT RD	RAMP SECT	F	I	V	I	C	TYPE	ACCIDENT	LOC	LI	SUR	D1	D2	VM1	VM2
① 51680891	07/28/95	13:50	173	SR	31	10.02	CR	96	0 /	0	00	00	00	00	ANGLE INTERSECTING	ON SHOULDER	1	DRY	S	W	10	05	
② 51160423	05/26/95	9:55	173	SR	31	10.02	CR	96	0 /	0	01	01	01	01	ANGLE INTERSECTING	ON ROADWAY	1	DRY	N	E	01	05	

REPORT TOTALS..... ACCIDENTS: 2      FATALITIES: 0      INJ-VISIBLE: 1      INJ-COMP: 1

PAGE TOTALS..... ACCIDENTS: 2      FATALITIES: 0      INJ-VISIBLE: 1      INJ-COMP: 1

TWO-WAY STOP CONTROL (TWSC) ANALYSIS

Analyst: Jeff Bridges  
 Intersection: SR 11,31,122/US 129,221  
 Count Date: September 2000  
 Time Period: AM

Intersection Orientation: East-West Major St.

Vehicle Volume Data:

Movements:	1	2	3	4	5	6	7	8	9	10	11	12
Volume:	350	140	80	25	170	35	150	50	25	25	25	230
HFR:	350	140	80	25	170	35	150	50	25	25	25	230
PHF:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHV:	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15

Pedestrian Volume Data:

Movements:

Flow:  
 Lane width:  
 Walk speed:  
 % Blockage:

Median Type: None  
 # of vehicles: 0

Flared approach Movements:

# of vehicles: Northbound 4  
 # of vehicles: Southbound 4

Lane usage for movements 1,2&3 approach:

Lane 1			Lane 2			Lane 3		
L	T	R	L	T	R	L	T	R
Y	N	N	N	Y	N	N	N	Y

Channelized: Y  
 Grade: -0.10

Lane usage for movements 4,5&6 approach:

Lane 1			Lane 2			Lane 3		
L	T	R	L	T	R	L	T	R
Y	N	N	N	Y	N	N	N	Y

Channelized: Y  
 Grade: 0.10

Lane usage for movements 7,8&9 approach:

Lane 1			Lane 2			Lane 3		
L	T	R	L	T	R	L	T	R
Y	N	N	N	Y	N	N	N	Y

Channelized: Y  
 Grade: 0.10

Lane usage for movements 10,11&12 approach:

Lane 1			Lane 2			Lane 3		
L	T	R	L	T	R	L	T	R
Y	N	N	N	Y	N	N	N	Y

Channelized: Y  
 Grade: -0.10

Data for Computing Effect of Delay to Major Street Vehicles:

	Eastbound	Westbound
Shared-ln volume, major th vehicles:	0	0
Shared ln volume, major rt vehicles:	0	0
Sat flow rate, major th vehicles:	1700	1700
Sat flow rate, major rt vehicles:	1700	1700
Number of major street through lanes:	1	1

Length of study period, hrs: 0.25

Worksheet 4 Critical Gap and Follow-up time calculation.

Critical Gap Calculations:

Movement	1	4	7	8	9	10	11	12
t c,base	4.1	4.1	7.1	6.5	6.2	7.1	6.5	6.2
t c,hv	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
P hv	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
t c,g			0.2	0.2	0.1	0.2	0.2	0.1
G	-0.10	0.10	0.10	0.10	0.10	-0.10	-0.10	-0.10
t 3,lt	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
t c,T:								
1 stage	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
t c								
1 stage	4.3	4.3	7.3	6.7	6.4	7.2	6.6	6.3

Follow Up Time Calculations:

Movement	1	4	7	8	9	10	11	12
t f,base	2.2	2.2	3.5	4.0	3.3	3.5	4.0	3.3
t f,HV	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
P hv	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
t f	2.3	2.3	3.6	4.1	3.4	3.6	4.1	3.4

Worksheet 6 Impedance and capacity equations

Step 1: RT from Minor St. 9 12

Conflicting Flows	140	170
Potential Capacity	874	842
Pedestrian Impedance Factor	1.00	1.00
Movement Capacity	874	842
Probability of Queue free St.	0.97	0.73

Step 2: LT from Major St. 4 1

Conflicting Flows	220	205
Potential Capacity	1276	1293
Pedestrian Impedance Factor	1.00	1.00
Movement Capacity	1276	1293
Probability of Queue free St.	0.98	0.73

Step 3: TH from Minor St. 8 11

Conflicting Flows	1095	1140
Potential Capacity	201	191
Pedestrian Impedance Factor	1.00	1.00
Cap. Adj. factor due to Impeding mvmnt	0.71	0.71
Movement Capacity	144	137
Probability of Queue free St.	0.65	0.82

Step 4: LT from Minor St. 7 10

Conflicting Flows	1090	1125
Potential Capacity	181	173
Pedestrian Impedance Factor	1.00	1.00
Maj. L, Min T Impedance factor	0.58	0.47
Maj. L, Min T Adj. Imp Factor.	0.68	0.58

Cap. Adj. factor due to Impeding mvmnt  
 Movement Capacity

0.49  
 89

0.56  
 97

Worksheet 10 delay, queue length, and LOS

Movement	1	4	7	8	9	10	11	12
v(vph)	350	25	150	50	25	25	25	230
C m(vph)	1293	1276	89	144	874	97	137	842
v/c	0.27	0.02	1.69	0.35	0.03	0.26	0.18	0.27
95% queue length								
Control Delay	8.8	7.9	435.5	42.8	9.2	54.4	37.1	10.9
LOS	A	A	F	E	A	F	E	B
Approach Delay				300.9			17.1	
Approach LOS				F			C	

TWO-WAY STOP CONTROL(TWSC) ANALYSIS

Analyst: Jeff Bridges  
 Intersection: SR 11,31,122/US 129,221  
 Count Date: September 2000  
 Time Period: PM

Intersection Orientation: East-West Major St.

Vehicle Volume Data:

Movements:	1	2	3	4	5	6	7	8	9	10	11	12
Volume:	230	170	150	25	140	25	80	25	25	35	50	350
HFR:	230	170	150	25	140	25	80	25	25	35	50	350
PHF:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHV:	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15

Pedestrian Volume Data:

Movements:

Flow:  
 Lane width:  
 Walk speed:  
 % Blockage:

Median Type: None  
 # of vehicles: 0

Flared approach Movements:

# of vehicles: Northbound 4  
 # of vehicles: Southbound 4

Lane usage for movements 1,2&3 approach:

	Lane 1			Lane 2			Lane 3		
	L	T	R	L	T	R	L	T	R
	Y	N	N	N	Y	N	N	N	Y

Channelized: Y  
 Grade: -0.10

Lane usage for movements 4,5&6 approach:

	Lane 1			Lane 2			Lane 3		
	L	T	R	L	T	R	L	T	R
	Y	N	N	N	Y	N	N	N	Y

Channelized: Y  
 Grade: 0.10

Lane usage for movements 7,8&9 approach:

	Lane 1			Lane 2			Lane 3		
	L	T	R	L	T	R	L	T	R
	Y	N	N	N	Y	N	N	N	Y

Channelized: Y  
 Grade: 0.10

Lane usage for movements 10,11&12 approach:

	Lane 1			Lane 2			Lane 3		
	L	T	R	L	T	R	L	T	R
	Y	N	N	N	Y	N	N	N	Y

Channelized: Y  
 Grade: -0.10

Data for Computing Effect of Delay to Major Street Vehicles:

	Eastbound	Westbound
Shared ln volume, major th vehicles:	0	0
Shared ln volume, major rt vehicles:	0	0
Sat flow rate, major th vehicles:	1700	1700
Sat flow rate, major rt vehicles:	1700	1700
Number of major street through lanes:	1	1

Length of study period, hrs: 0.25

Worksheet 4 Critical Gap and Follow-up time calculation.

Critical Gap Calculations:

Movement	1	4	7	8	9	10	11	12
t c,base	4.1	4.1	7.1	6.5	6.2	7.1	6.5	6.2
t c,hv	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
P hv	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
t c,g			0.2	0.2	0.1	0.2	0.2	0.1
G	-0.10	0.10	0.10	0.10	0.10	-0.10	-0.10	-0.10
t 3,lt	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
t c,T:								
1 stage	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
t c								
1 stage	4.3	4.3	7.3	6.7	6.4	7.2	6.6	6.3

Follow Up Time Calculations:

Movement	1	4	7	8	9	10	11	12
t f,base	2.2	2.2	3.5	4.0	3.3	3.5	4.0	3.3
t f,HV	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
P hv	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
t f	2.3	2.3	3.6	4.1	3.4	3.6	4.1	3.4

Worksheet 6 Impedance and capacity equations

Step 1: RT from Minor St.	9	12
Conflicting Flows	170	140
Potential Capacity	841	875
Pedestrian Impedance Factor	1.00	1.00
Movement Capacity	841	875
Probability of Queue free St.	0.97	0.60

Step 2: LT from Major St.	4	1
Conflicting Flows	320	165
Potential Capacity	1170	1338
Pedestrian Impedance Factor	1.00	1.00
Movement Capacity	1170	1338
Probability of Queue free St.	0.98	0.83

Step 3: TH from Minor St.	8	11
Conflicting Flows	845	970
Potential Capacity	284	242
Pedestrian Impedance Factor	1.00	1.00
Cap. Adj. factor due to Impeding mvmnt	0.81	0.81
Movement Capacity	230	196
Probability of Queue free St.	0.89	0.74

Step 4: LT from Minor St.	7	10
Conflicting Flows	858	908
Potential Capacity	262	244
Pedestrian Impedance Factor	1.00	1.00
Maj. L, Min T Impedance factor	0.60	0.72
Maj. L, Min T Adj. Imp Factor.	0.69	0.79

Cap. Adj. factor due to Impeding mvmnt  
Movement Capacity

0.41  
109

0.76  
186

Worksheet 10 delay, queue length, and LOS

Movement	1	4	7	8	9	10	11	12
v(vph)	230	25	80	25	25	35	50	350
C m(vph)	1338	1170	109	230	841	186	196	875
v/c	0.17	0.02	0.74	0.11	0.03	0.19	0.26	0.40
95% queue length								
Control Delay	8.2	8.1	99.3	22.5	9.4	28.7	29.5	11.8
LOS	A	A	F	C	A	D	D	B
Approach Delay				67.2			15.2	
Approach LOS				F			C	



**STP-0000-00(310), Lanier County  
P.I. NO. 0000310  
Concept Meeting Minutes  
June 8, 2001**

The meeting was called to order at 10:30 AM with Jeff Bridges, District Design Squad Leader presiding. A sign-in sheet was passed around and is attached as part of the minutes. There was no representation from the DOT Maintenance Office or Lanier County. Mr. Bridges described the project concept to the committee.

Joe Burns, District Environmentalist stated that the level of environmental analysis would be a Categorical Exclusion. He stated that there are no Underground Storage Tanks within the project limits. Mr. Burns also stated that there are four potential wetland areas in the vicinity, and that two will be impacted.

Emory Giddens, Assistant District Utilities Engineer stated that Slash Pine EMC, Alltel of Georgia, and Atlanta Gas & Light have facilities located within this project.

Mr. Danny Gay, District Access Management Supervisor recommended Alternate 1 that was presented. He stated that Alternate 2 should be used only if Alternate 1 cannot be built. He re-emphasized that this intersection needs to be improved by whatever means.

Mr. Bridges asked if there were any other comments. There was none.

The committee accepted the concept as described and the meeting was concluded at 11:15 AM.

# NOTICE OF LOCATION AND DESIGN APPROVAL

***STP-0000-00(310), Lanier County  
P.I. No. 0000310***

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.

The date of location approval is July 27, 2001.

The intersection of SR 31/US 221 at SR 37 and SR 11/US 129 is located 2 miles east of Lakeland Georgia. This project is located in Lanier County, in the 11th Land District, Land Lots 479-480, 487- 488, and G.M.D. 586.

This project will re-align SR 11,31/US 129,221 at SR 37,122 to improve safety and turning movements.

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

*Tim Warren  
tim.warren@dot.state.ga.us  
1409 Madison Hwy  
Valdosta, GA 31601-6585  
(229) 333-5287*

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:

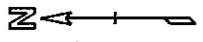
*Zane G. Hutchinson  
District Design Engineer  
zane.hutchinson@dot.state.ga.us  
Georgia Department of Transportation  
PO Box 7510  
Tifton, GA 31793-7510  
(229) 386-3300*

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

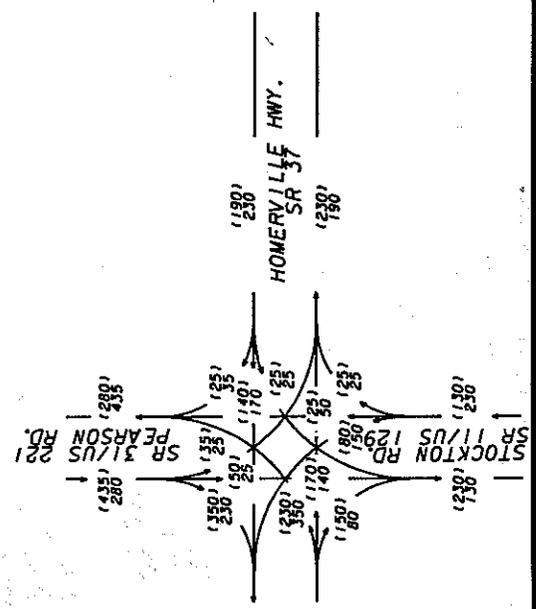
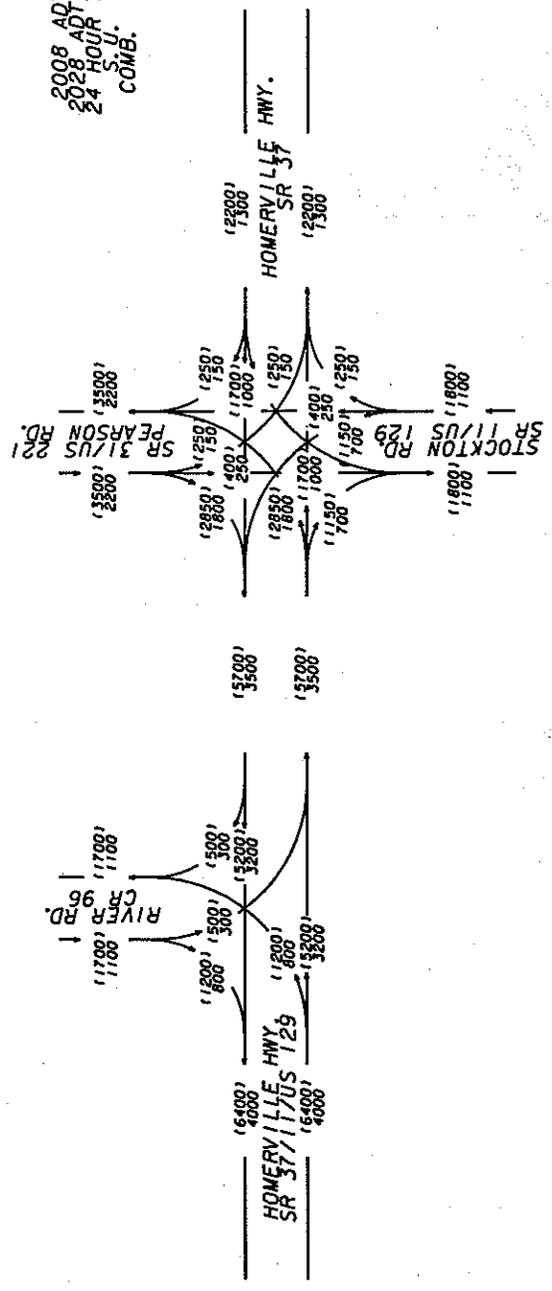


GEORGIA DEPARTMENT OF TRANSPORTATION  
OFFICE OF ENVIRONMENT/LOCATION

SHEET 1 OF 1 LANIER COUNTY



2008 ADT : 000  
2028 ADT : (000)  
24 HOUR T : 5% 15%  
S.U. : 5% 10%  
COMB. : 5% 10%



2028 AM DHV : 000  
2028 PM DHV : (000)  
T : 10%

STP-0000-001310  
LANIER COUNTY  
SR 37/US 221 &  
SR 39 & SR 11



SR 11, 31, 37, 122/US 129, 221

SR 31, 122/US 221 RE-ALIGNMENT

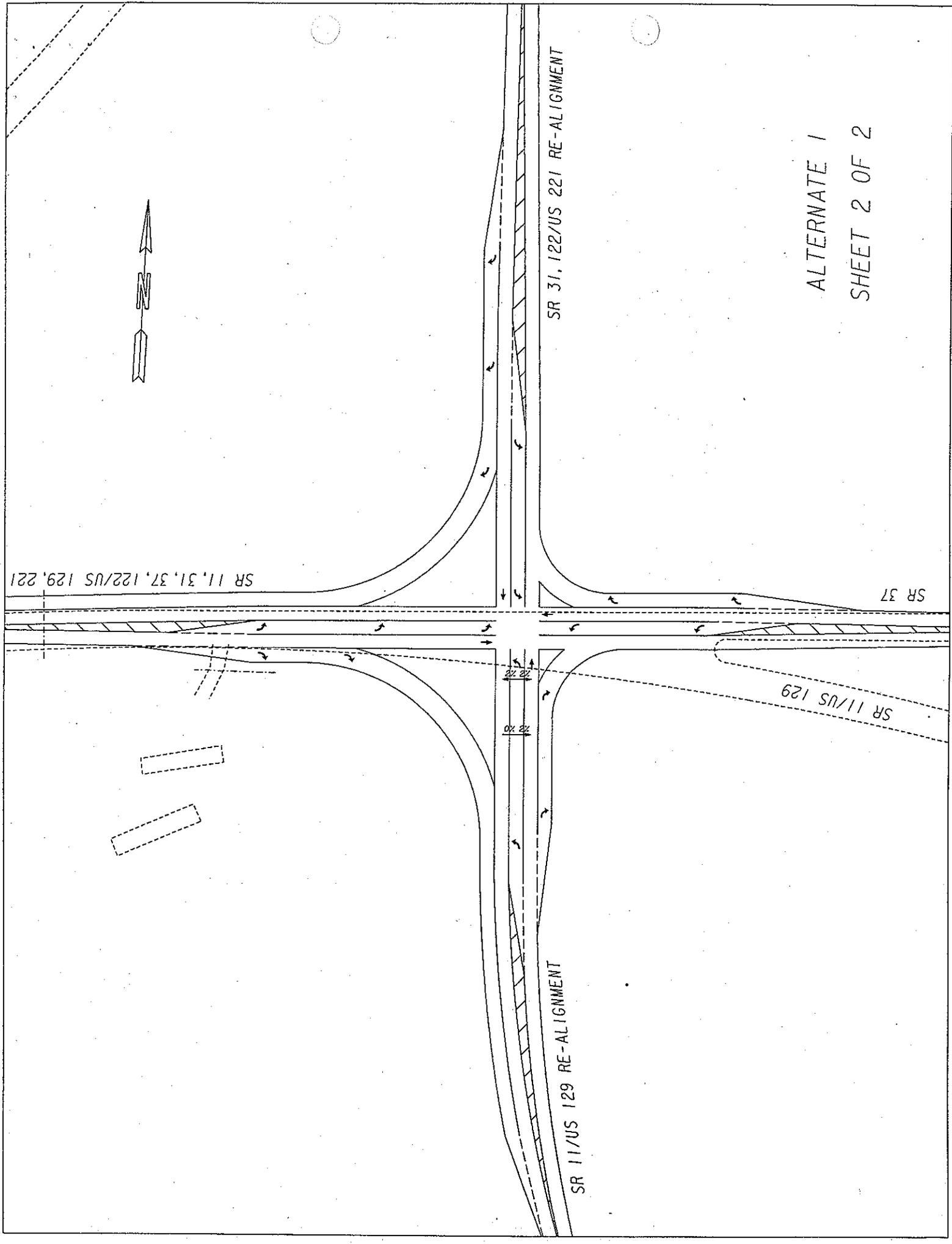
SR 37

SR 11/US 129

20' 20'

SR 11/US 129 RE-ALIGNMENT

ALTERNATE 1  
SHEET 2 OF 2



LAKELAND 2 MILES ↑

SEE SHEET 3

SR 31, 122/US 221

PROPOSED  
RE-ALIGNMENT

SR 11, 37  
US 129

SEE SHEET 2

PROPOSED RE-ALIGNMENT

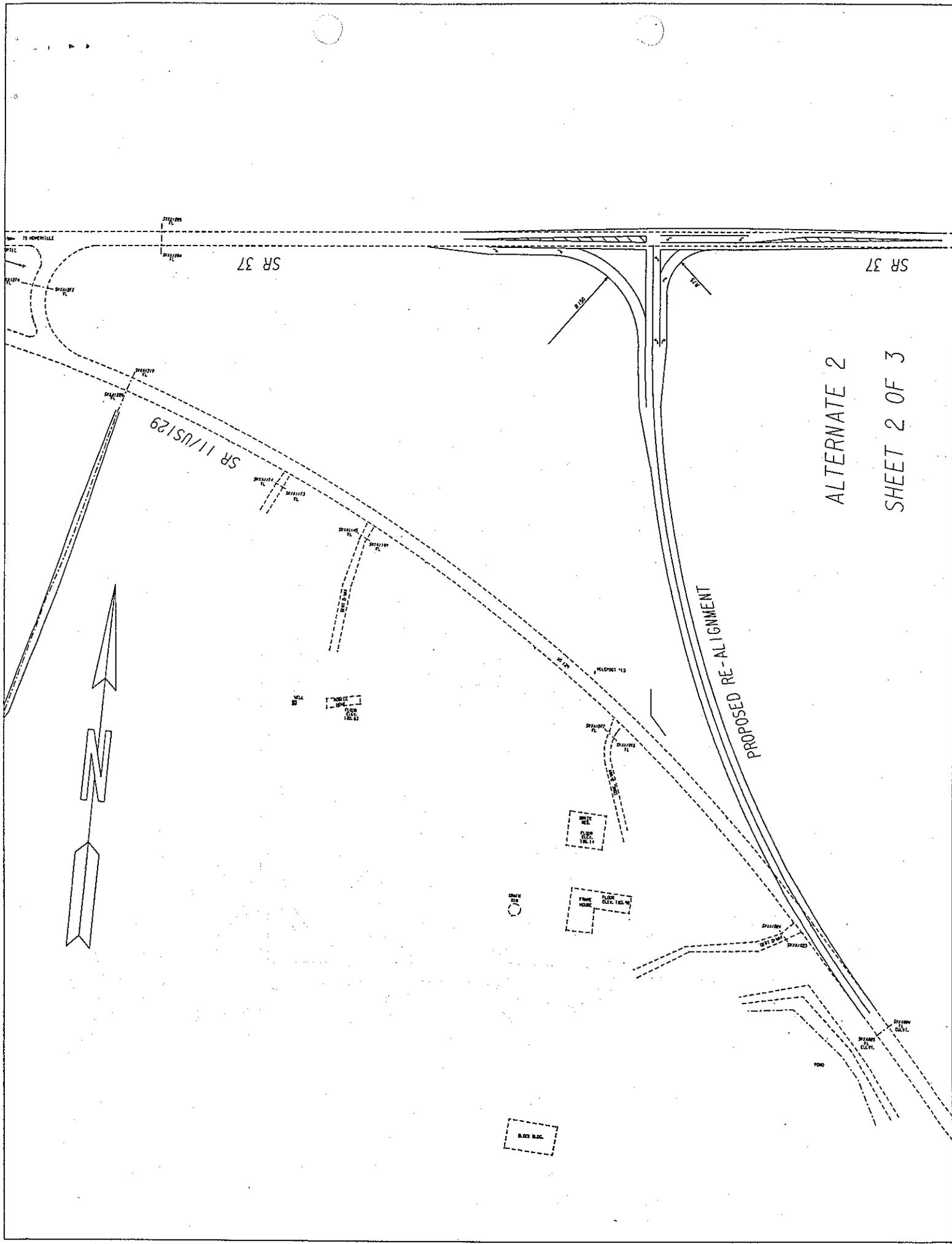
SR 37

SR 11/US 129



ALTERNATE 2

SHEET 1 OF 3



ALTERNATE 2

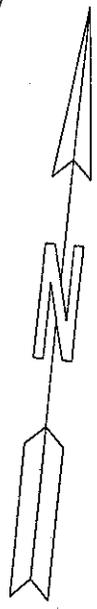
SHEET 2 OF 3

SR 37

SR 37

SR 11/US129

PROPOSED RE-ALIGNMENT



BLACK BLK.

EXIST. CONC. CURB  
PROPOSED CONC. CURB

EXIST. CONC. CURB  
PROPOSED CONC. CURB

EXIST. CONC. CURB  
PROPOSED CONC. CURB

STATION 10+00

STATION 10+00

STATION 10+00

STATION 10+00

1000



8 June, 2001

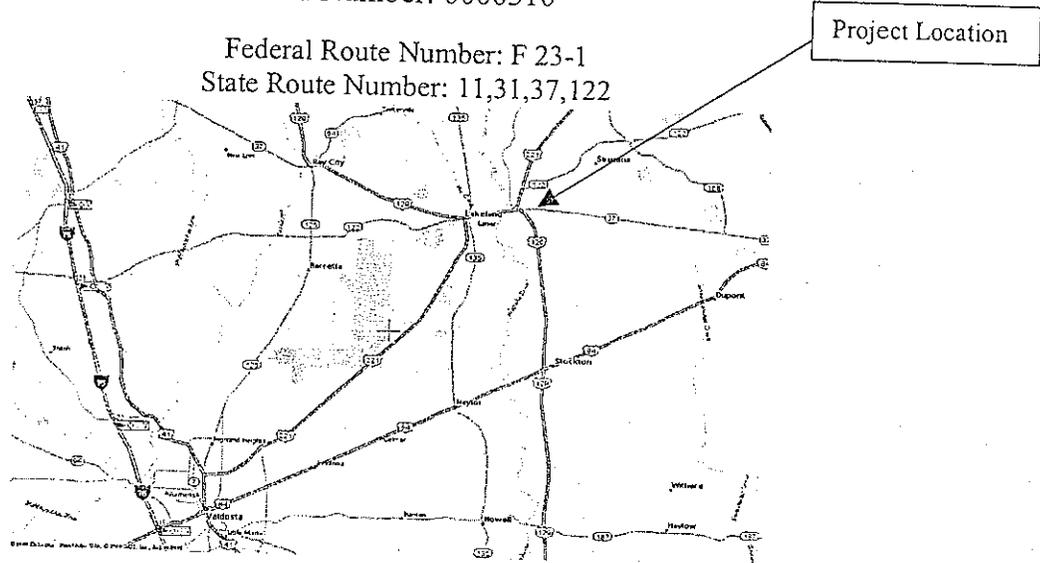
State of Georgia  
Department of Transportation

Project Concept Report Page: 1  
Project Number: STP-0000-00(310)  
P. I. Number: 0000310  
County: Lanier

DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA  
District 4 - Tifton, Ga.

Project Number: STP-0000-00(310)  
County: Lanier  
P. I. Number: 0000310

Federal Route Number: F 23-1  
State Route Number: 11,31,37,122



Recommended for approval:

DATE: 06/19/01

DATE: 6/19/01

*Eane S. Johnson*  
Project Manager

*[Signature]*  
District Engineer

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: \_\_\_\_\_

DATE: 6-21-01

DATE: \_\_\_\_\_

DATE: \_\_\_\_\_

DATE: \_\_\_\_\_

State Transportation Planning Administrator

*[Signature]*

State Transportation Programming Engineer

State Environmental/Location Engineer

State Traffic Operations Engineer

Project Review Engineer

18 June, 2001

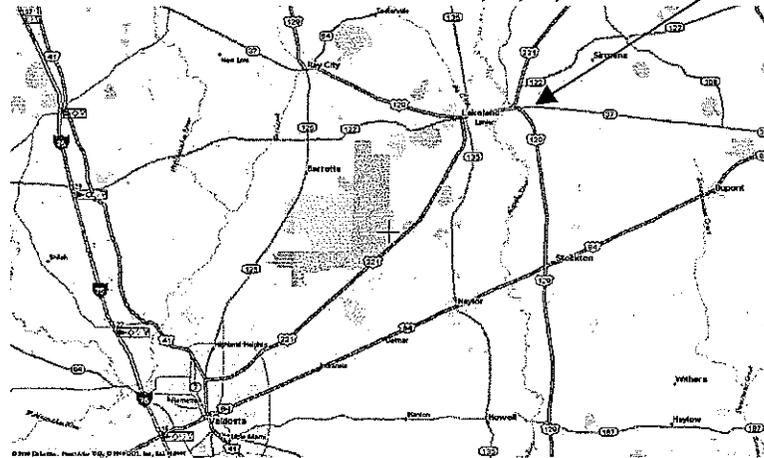
State of Georgia  
Department of Transportation

Project Concept Report Page: 1  
Project Number: STP-0000-00(310)  
P. I. Number: 0000310  
County: Lanier

**DEPARTMENT OF TRANSPORTATION**  
**STATE OF GEORGIA**  
*District 4 - Tifton, Ga.*

Project Number: STP-0000-00(310)  
County: Lanier  
P. I. Number: 0000310

Federal Route Number: F 23-1  
State Route Number: 11,31,37,122



Recommended for approval:

DATE: 06/19/01

DATE: 6/19/01

Eane S. Johnson  
Project Manager  
[Signature]  
District Engineer

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: 6-25-01

Marta V. Rosen  
State Transportation Planning Administrator

DATE: \_\_\_\_\_

State Transportation Programming Engineer

DATE: \_\_\_\_\_

State Environmental/Location Engineer

DATE: \_\_\_\_\_

State Traffic Operations Engineer

DATE: \_\_\_\_\_

Project Review Engineer

Department of Transportation  
State of Georgia

INTERDEPARTMENTAL CORRESPONDENCE

File: STP-0000-00 (310) / Lanier County  
P.I. No. 000310

Office: Traffic Operations  
Atlanta, Georgia  
Date: June 27, 2001

From:  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 above referenced concept report for the intersection improvements of SR 37 at SR 11 and SR 31 in Lanier County. The length of this project is 2 miles.

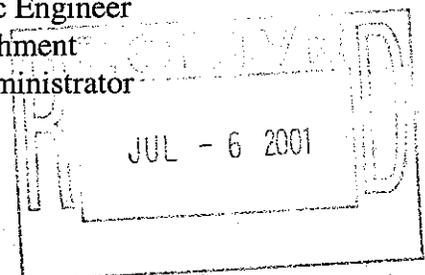
SR 37 is currently a 2-lane roadway with a right of way width of 100 feet and a current AADT of 7000 vehicles. SR 31 and SR 11 intersect SR 37 approximately 1300 feet apart at substandard angles. This concept proposes to realign SR 11 and SR 31 to intersect SR 37 at a ninety-degree angle. Left and right turn lanes will be installed on all four legs of the proposed intersection. A traffic signal will be required at this location.

We believe this concept will improve safety and traffic operations within this area, therefore find this report satisfactory for approval.

MGW/BM

Attachment (signature page)

Cc: Harvey Keepler, State Environment/Location Engineer  
David Crim, District Engineer-Tifton  
Attention: Zane Hutchinson, District Design Engineer  
Attention: Brent Thomas, District Traffic Engineer  
David Mulling, State Review Engineer, w/ attachment  
Marta Rosen, State Transportation Planning Administrator  
Chuck Hasty, TMC  
General Files



18 June, 2001

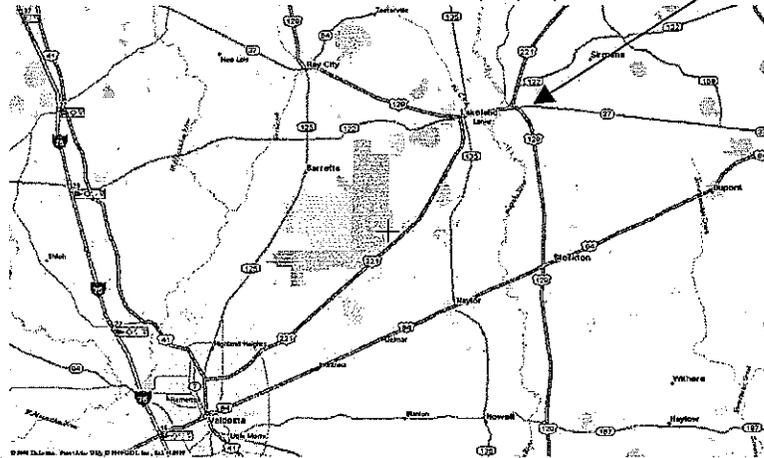
State of Georgia  
Department of Transportation

Project Concept Report Page: 1  
Project Number: STP-0000-00(310)  
P. I. Number: 0000310  
County: Lanier

**DEPARTMENT OF TRANSPORTATION**  
**STATE OF GEORGIA**  
*District 4 - Tifton, Ga.*

Project Number: STP-0000-00(310)  
County: Lanier  
P. I. Number: 0000310

Federal Route Number: F 23-1  
State Route Number: 11,31,37,122



Recommended for approval:

DATE: 06/19/01

DATE: 6/19/01

*Eane S. Johnson*  
Project Manager  
*[Signature]*  
District Engineer

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: \_\_\_\_\_

\_\_\_\_\_  
State Transportation Programming Engineer

DATE: \_\_\_\_\_

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

DATE: 6/26/01

*Marion [Signature]*  
State Traffic Operations Engineer

DATE: \_\_\_\_\_

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

18: June, 2001

State of Georgia  
Department of Transportation

Project Concept Report Page: 1  
Project Number: STP-0000-00(310)  
P. I. Number: 0000310  
County: Lanier

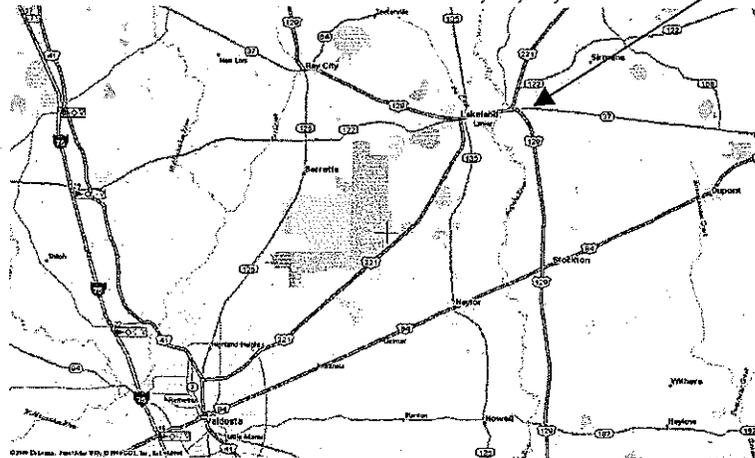
# DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA

District 4 - Tifton, Ga.

Project Number: STP-0000-00(310)  
County: Lanier  
P. I. Number: 0000310

Federal Route Number: F 23-1  
State Route Number: 11,31,37,122

Project Location



Recommended for approval:

DATE: 06/19/01

DATE: 6/19/01

*E. J. Johnson*  
Project Manager  
*[Signature]*  
District Engineer

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: \_\_\_\_\_

State Transportation Programming Engineer

DATE: \_\_\_\_\_

State Environmental/Location Engineer

DATE: \_\_\_\_\_

State Traffic Operations Engineer

DATE: 7/6/01

*[Signature]*  
Project Review Engineer