

D.O.T. 66

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE P. I. No. 0004917, Liberty County **OFFICE** Preconstruction
 STP-0004-00(917)
 SR, 119 Widening **DATE** January 31, 2007

FROM *Cynthia Keener* Genetha Rice-Singleton, Assistant Director of Preconstruction

TO *file* SEE DISTRIBUTION

SUBJECT APPROVED PROJECT CONCEPT REPORT

Attached for your files is the approval for subject project.

GRS/cj

Attachment

DISTRIBUTION:

- Brian Summers
- Harvey Keepler
- Ken Thompson
- Jamie Simpson
- Michael Henry
- Keith Golden
- Angela Alexander (file copy)
- Paul Liles
- Babs Abubakari
- Glenn Durrence
- BOARD MEMBER

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

FILE: P. I. No. 0004917, Liberty County **OFFICE:** Preconstruction
 STP-0004-00(917)
 SR 119 Widening **DATE:** January 18, 2007

FROM: *Genetha Rice*
 Genetha Rice-Singleton, Assistant Director of Preconstruction

TO: *David E. Studstill, Jr.*
 David E. Studstill, Jr., P.E., Chief Engineer

SUBJECT: PROJECT CONCEPT REPORT

This project is the widening and reconstruction of SR 119 from US 84 to SR 196 for a total of 3.30 miles. State Route 119 currently consists of two, 12' lanes and is classified as a minor urban arterial. State Route 119 is an important link between the two major thoroughfares in the area, US 84 and SR 196, both of which are multi-lane facilities. State Route 119 provides a vital connection in the roadway network surrounding Hinesville and Fort Stewart. Traffic volumes on SR 119 are approaching congested conditions and are expected to more than double by the 2030 design year. Recent collision data indicates that while the collision rates are slightly below the statewide average for urban minor arterials, the injury rate along SR 119 is higher than average.

The construction proposes to widen SR 119 to provide two, 12' lanes in each direction divided by a 24' raised median with a 17' shoulder including 2.5' curb and gutter and a 10' multi-use path on the west side and a 13' shoulder including 2.5' curb and gutter and a 6' sidewalk on the east side. The proposed design speed is 45 MPH and access will be by permit. Traffic will be maintained during construction.

Environmental concerns include requiring a COE 404 permit; an Environmental Assessment will be prepared; a public hearing open house will be held; time saving procedures are not appropriate.

The estimated costs for this project are:

	PROPOSED	APPROVED	FUNDING	PROG DATE
Construction (includes E&C and inflation)	\$11,622,000	\$3,250,000	L200	LR
Right-of-Way	\$ 8,000,000	\$1,961,000	LY20	2008
Utilities*	Local	Local		

David Studstill
Page 2

P. I. No. 0004917, Liberty
January 18, 2007

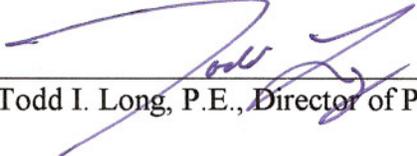
*Liberty County signed PMA for PE and utilities; DOT to do right-of-way and construction.

I recommend this project concept be approved.

GRS:JDQ/cj

Attachment

CONCUR



Todd I. Long, P.E., Director of Preconstruction

APPROVE



David E. Studstill, Jr., P.E., Chief Engineer

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

District 5

Project Number: STP-0004-00(917)

County: Liberty County

P. I. Number: 0004917

Federal Route Number: None

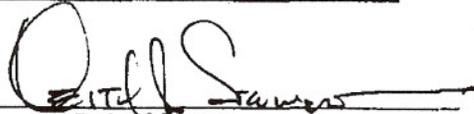
State Route Number: SR 119



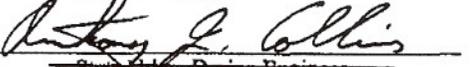
STATE ROUTE 119 from US 84 to STATE ROUTE 196

Recommendation for approval:

DATE 12/12/06


Project Manager

DATE 12/12/06


State Urban Design Engineer
DISTRICT PRECONSTRUCTION ENGINEER

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

DATE _____

State Transportation Planning Administrator

DATE _____

State Financial Management Administrator

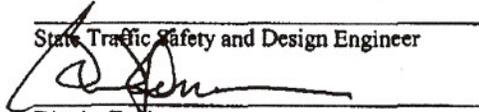
DATE _____

State Environmental/Location Engineer

DATE _____

State Traffic Safety and Design Engineer

DATE 12/12/06


District Engineer

DATE 1/16/07


Project Review Engineer

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

FILE: P.I. No. 0004917

OFFICE: Environment/Location



DATE: December 21, 2006

FROM: Harvey D. Keepler, State Environmental/Location Engineer

TO: Genetha-Rice Singleton, Assistant Director of Preconstruction

**SUBJECT: PROJECT CONCEPT REPORT
STP-0004-00(917) / Liberty County
S.R.119 from U.S.84 to S.R.196**

The above subject Concept Report has been reviewed. There are several Historic Resources located at the U.S.84 and S.R.196 terminus. Need to exercise care to avoid / minimize impacts.

If you have any questions, please contact me at (404)699-4401.

HDK/lc

Attachment

cc: Brian Summers
Jamie Simpson
Glenn Durrence
Angela Alexander
Paul Liles
Teresa Scott

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

District 5

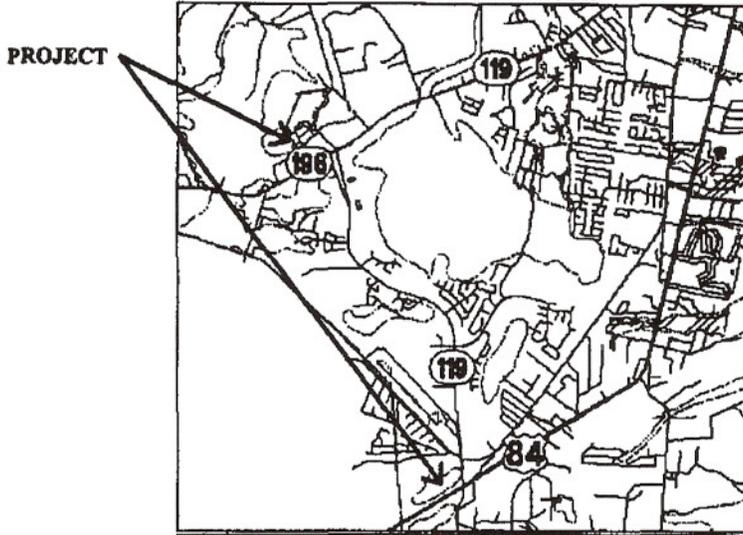
Project Number: STP-0004-00(917)

County: Liberty County

P. I. Number: 0004917

Federal Route Number: None

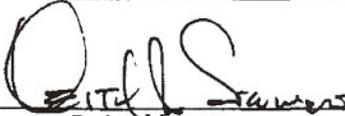
State Route Number: SR 119



STATE ROUTE 119 from US 84 to STATE ROUTE 196

Recommendation for approval:

DATE 12/12/06


Project Manager

DATE 12/12/06


State Urban Design Engineer
DISTRICT PRECONSTRUCTION ENGINEER

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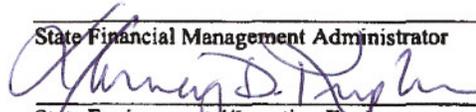
DATE _____

State Transportation Planning Administrator

DATE _____

State Financial Management Administrator

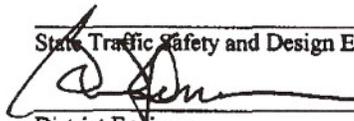
DATE 12-21-06


State Environmental/Location Engineer

DATE _____

State Traffic Safety and Design Engineer

DATE 12/12/06


District Engineer

DATE _____

Project Review Engineer

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

District 5

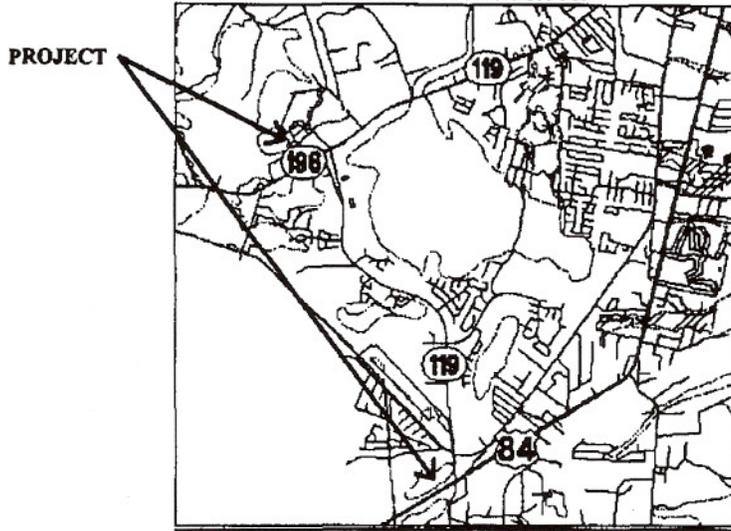
Project Number: STP-0004-00(917)

County: Liberty County

P. I. Number: 0004917

Federal Route Number: None

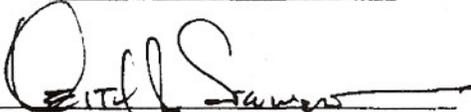
State Route Number: SR 119



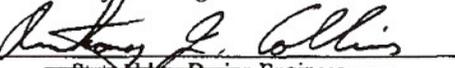
STATE ROUTE 119 from US 84 to STATE ROUTE 196

Recommendation for approval:

DATE 12/12/06

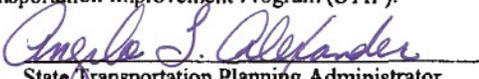

Project Manager

DATE 12/12/06


State Urban Design Engineer
DISTRICT PRECONSTRUCTION ENGINEER

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DATE 12/19/06


State Transportation Planning Administrator

DATE _____

State Financial Management Administrator

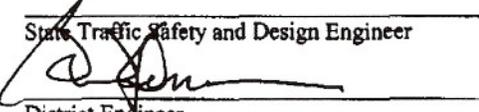
DATE _____

State Environmental/Location Engineer

DATE _____

State Traffic Safety and Design Engineer

DATE 12/12/06


District Engineer

DATE _____

Project Review Engineer

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

District 5

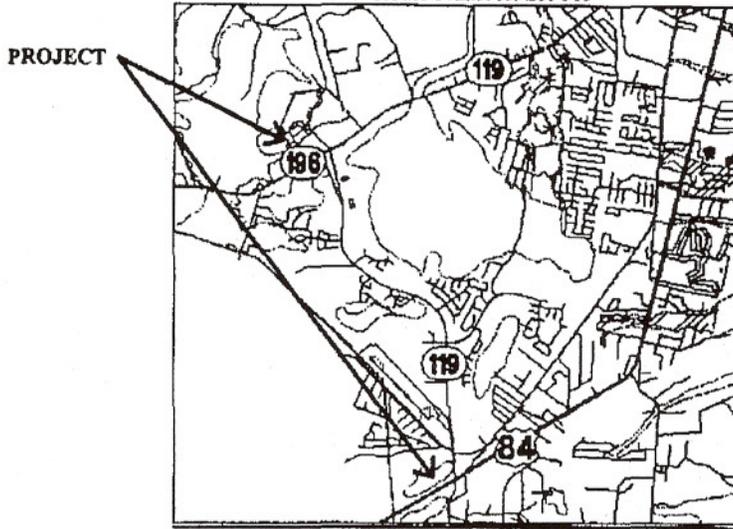
Project Number: STP-0004-00(917)

County: Liberty County

P. I. Number: 0004917

Federal Route Number: None

State Route Number: SR 119



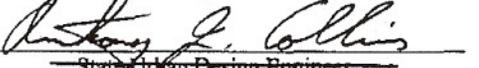
STATE ROUTE 119 from US 84 to STATE ROUTE 196

Recommendation for approval:

DATE 12/12/06


Project Manager

DATE 12/12/06

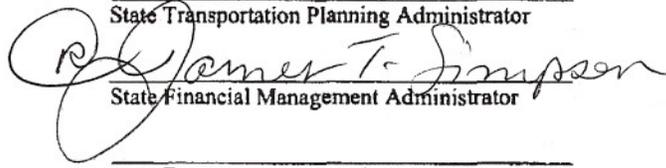

State Urban Design Engineer
DISTRICT PRECONSTRUCTION ENGINEER

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State Transportation Planning Administrator

DATE 12/19/06


State Financial Management Administrator

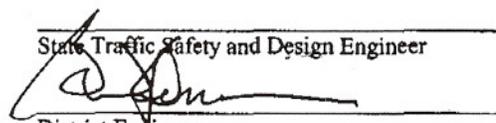
DATE _____

State Environmental/Location Engineer

DATE _____

State Traffic Safety and Design Engineer

DATE 12/12/06


District Engineer

DATE _____

Project Review Engineer

SCORING RESULTS AS PER MOG 2440-2

Project Number: STP-0004-00(917)		County: Liberty		PI No.: 0004917		
Report Date: December 12, 2006		Concept By: DOT Office: District 5				
<input checked="" type="checkbox"/> Concept Stage		Consultant: Thomas and Hutton Engineering, Inc.				
Project Type: Choose One From Each Column		<input type="checkbox"/> Major <input checked="" type="checkbox"/> Minor	<input checked="" type="checkbox"/> Urban <input type="checkbox"/> Rural	<input type="checkbox"/> ATMS <input type="checkbox"/> Bridge Replacement <input type="checkbox"/> Building <input type="checkbox"/> Interchange Reconstruction <input type="checkbox"/> Intersection Improvement <input type="checkbox"/> Interstate <input type="checkbox"/> New Location <input checked="" type="checkbox"/> Widening & Reconstruction <input type="checkbox"/> Miscellaneous		
FOCUS AREAS	SCORE	RESULTS				
Presentation	100					
Judgement	100					
Environmental	100					
Right of Way	100					
Utility	100					
Constructability	100					
Schedule	100					

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

District 5

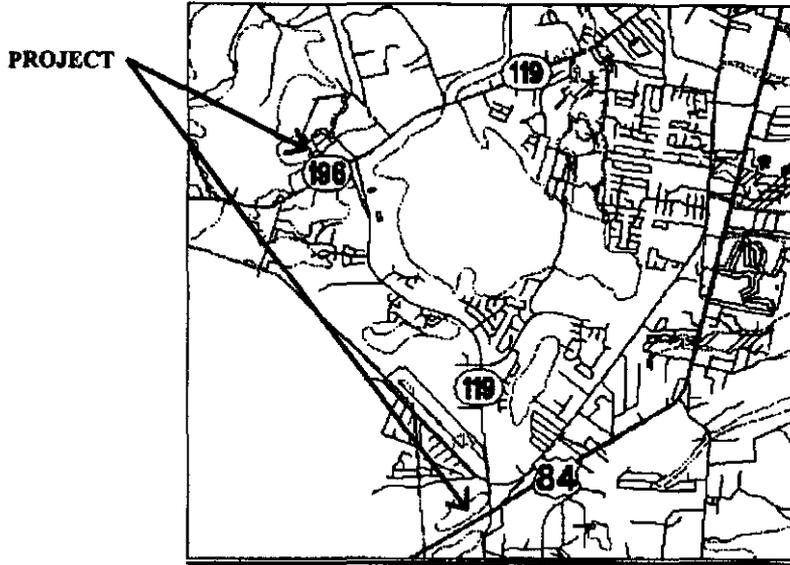
Project Number: STP-0004-00(917)

County: Liberty County

P. I. Number: 0004917

Federal Route Number: None

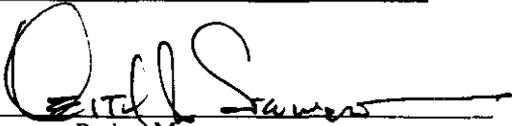
State Route Number: SR 119



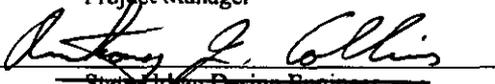
STATE ROUTE 119 from US 84 to STATE ROUTE 196

Recommendation for approval:

DATE 12/12/06


Project Manager

DATE 12/12/06


State Urban Design Engineer
DISTRICT PRECONSTRUCTION ENGINEER

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

DATE _____

State Transportation Planning Administrator

DATE _____

State Financial Management Administrator

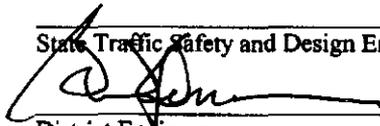
DATE _____

State Environmental/Location Engineer

DATE _____

State Traffic Safety and Design Engineer

DATE 12/12/06


District Engineer

DATE _____

Project Review Engineer

Introduction

Project STP-0004-00(917) consists of the widening of SR 119 in Liberty County. The project proposes to widen SR 119 from the intersection of US 84 to SR 196 on 200 feet of proposed right of way. SR 119 would be widened from an existing 2 lane facility to a 4 lane divided roadway. The southern terminus is the intersection of SR 119 and US 84. Within the project area, SR 119 is functionally classified as a minor urban arterial.

The length of the proposed project is approximately 3.30 miles. The typical section will consist of two – 12 foot lanes in each direction with a 24 foot raised grassed median. There will be a 17 foot outside shoulder with 2.5 feet of curb & gutter and a multi-use pathway on the west side. The east side shoulder will consist of 2.5 feet of curb & gutter and a 6 foot sidewalk for a total width of 13 foot.

The widening of SR 119 is identified and included in the Liberty County Transportation Improvement Plan, which was adopted in October, 2005.

Need and Purpose:

The need for this proposed project is to improve mobility in Liberty County and accommodate increasing travel demand in the area.

SR 119 is an important link between the two major thoroughfares in the area, US 84 and SR 196, both of which are multi-lane facilities. SR 119 provides a vital connection in the roadway network surrounding Hinesville and Fort Stewart. Traffic volumes on SR 119 are approaching congested conditions and are expected to more than double by the 2030 design year.

Recent collision data indicates that while the collision rates are slightly below the statewide average for Urban Minor Arterials, the injury rate along SR 119 is higher than average. SR 119 provides access to four separate school sites between US 84 and SR 196 and is a designated Liberty County bicycle route. The existing two-lane roadway does not provide accommodations for bicyclists or pedestrians near any of the schools.

The purpose of this project is to increase roadway capacity to accommodate rising volumes, improve roadway alignments and intersection configurations to improve safety, and to provide accommodations for all roadway users, including bicyclists and pedestrians.

Vehicular Demand

Recent counts taken in May 2005 showed daily volumes of roughly 9,100 vehicles per day. As a two-lane highway, SR 119 is currently operating at LOS D.

GDOT recently completed a regional transportation model for the Liberty County and Long

Project Concept Report page 4
Project Number: STP-0004-00(917)
P. I. Number: 0004917
County: LIBERTY

County area. Future estimates of the population and land uses were made in coordination with the Liberty Consolidated Planning Commission, Fort Stewart representatives, and GDOT officials. The area around SR 119 and near Fort Stewart is anticipated to grow significantly in the near future, with large residential and commercial uses.

Based on regional planning and the recently completed transportation model, 2030 volumes on SR 119 are estimated at 20,100 to 20,900 vehicles per day between US 84 and GA 196. As a two-lane highway without improvement, SR 119 would operate at a design year LOS E. Widening the roadway would improve operations to LOS B.

Safety

Accident data from 2001 to 2003 (the latest available) was collected by GDOT. During this period 103 collisions occurred along SR 119 between US 84 and the project's northern terminus at SR 196.

The statewide average accident rate for all urban minor arterials from 2001 to 2003 was 563 collisions per 100 million vehicle miles of travel. The average accident rate for SR 119 was slightly lower than the state average, at 493 collisions per 100 million vehicle miles. The injury rate on SR 119 averaged 394 per 100 million vehicle miles, which was higher than the statewide average of 218 per 100 million vehicle miles. From 2002 to 2003, the accident rate along SR 119 exceeded the statewide average while the injury rate exceeded the statewide average in 2001 and 2002.

Multi-modal considerations

There are four school sites along SR 119 between GA 84 and SR 196. SR 119 is designated by Liberty County as a bicycle route. The current configuration does not provide sidewalks for pedestrians or any type of bicycle accommodations. The proposed widening would provide a 10 foot wide multi-use pathway on the west side of SR 119 and 6-foot sidewalk on the east side of SR 119.

Other proposed projects in the area:

Project Construction Type	Project Number	P.I. Number	Limits	*Construction Year
Hinesville Bypass Construction	NH-026-3(56)	522570	SR 119 to US 84/SR 38	2009

* "Construction Year" is as per the Liberty County Transportation Study's Transportation Improvement Program.

Description of the proposed project:

Project Concept Report page 5
Project Number: STP-0004-00(917)
P. I. Number: 0004917
County: LIBERTY

Project STP-0004-00(917) Liberty County is the proposed widening of SR 119 from the intersection of US 84 through State Route 196. The project will accommodate anticipated residential and commercial growth. The proposed project length consists of Approx. 3.3 miles along State Route 119.

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

PDP Classification: Major X Minor
Federal Oversight: Full Oversight (), Exempt(X), State Funded (), or Other ()

Functional Classification: Minor Urban Arterial

U. S. Route Number(s): N/A State Route Number(s): SR 119

Traffic (AADT):
Current Year: (2006) 9,100 Design Year: (2030) 20,100 to 20,900

Existing design features:

- Typical Section: **2 – 12 foot lanes with a 10 foot grassed shoulders.**
- Posted speed **45 mph (SR 119), 45 mph(SR 196) and 45 mph (US 84)**
- Minimum radius for curve: 643'
- Maximum super-elevation rate for curve: 6.0%
- Maximum grade: 2 % - mainline, crossroads and drives.
- Width of right of way: **Varies 100 to 120 foot (SR 119), 100 foot (SR 196), and 100 to 120 foot (US 84).**
- Major structures: None (List all bridge structures including length, width, and sufficient rating).
- Major interchanges or intersections along the project:
 1. SR 119 and US 84 Intersection
 2. SR 119 and SR 196 Intersection
- 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).
3.30 Miles (SR 119)

Proposed Design Features:

- Proposed typical section(s):
 - The proposed typical section will continue the existing: 2 – 12 foot lanes in each direction divided by a 24 foot raised median with a 17 foot shoulder including 2.5 foot curb & gutter and a 10 foot multi-use path on the west side and a 13 foot shoulder including 2.5 foot curb & gutter and a 6 foot sidewalk on the east side.
- Proposed Design Speed Mainline 45 mph
- Proposed Maximum grade Mainline 2 %
- Maximum grade allowable 6 %.
- Proposed Maximum grade Side Street 2 %
- Maximum grade allowable 15 %.

- Proposed Maximum grade driveway 6 %
- Proposed Minimum radius for curve 782'
- Minimum radius allowable 643'
- Proposed Maximum super-elevation rate for curve: 6.0%
- Proposed right of way:
 - Width: **160 to 200 foot (SR 119).**
 - Easements: Temporary (), Permanent (X), Utility (X), Other ().
 - Type of access control: Full (), Partial (), By Permit (X), Other ().
 - Number of parcels: 70 Number of displacements:
 - Business: 0
 - Residences: 4
 - Mobile homes: 0
 - Other: 0
- Structures:
 - Bridges - **NONE**
 - Retaining walls - **NONE**
 - Box Culvert - **NONE**
- Major intersections and interchanges.
 1. **US 84 Intersection at southern project Terminus.**
 2. **SR 196 Intersection at northern project Terminus.**
- Traffic control during construction: SR 119 will continue to carry traffic during construction to widen it to a multi-lane facility.
- Design Exceptions to controlling criteria anticipated:

	<u>UNDETERMINED</u>	<u>YES</u>	<u>NO</u>
HORIZONTAL ALIGNMENT:	()	()	(X)
ROADWAY WIDTH:	()	()	(X)
SHOULDER WIDTH:	()	()	(X)
VERTICAL GRADES:	()	()	(X)
CROSS SLOPES:	()	()	(X)
STOPPING SIGHT DISTANCE:	()	()	(X)
SUPERELEVATION RATES:	()	()	(X)
HORIZONTAL CLEARANCE:	()	()	(X)
SPEED DESIGN:	()	()	(X)
VERTICAL CLEARANCE:	()	()	(X)
BRIDGE WIDTH:	()	()	(X)
BRIDGE STRUCTURAL CAPACITY:	()	()	(X)

- Design Variances; **NONE**
- Environmental concerns:
 - Wetland Impacts – Approximately 3.7 Acres of wetland impacts. Section 404 Jurisdictional Wetlands.
 - Cultural Resources – Cultural resources survey pursuant to Section 106 of the National Historic Preservation Act of 1966.

Project Concept Report page 7
Project Number: STP-0004-00(917)
P. I. Number: 0004917
County: LIBERTY

- Endangered species – Threatened and endangered species survey pursuant to the Endangered Species Act of 1963.
- Noise – A Noise Impact Assessment will be made in compliance with 23 CFR Part 772 of the FHWA's guidelines for the assessment of highway generated noise.
- COE Individual Permit Required

Level of Environmental Analysis:

- Are Time Savings Procedures appropriate? Yes (), No (X),
- Categorical exclusion (),
- Environmental Assessment/Finding of No Significant Impact (FONSI) (X), or
- Environmental Impact Statement (EIS) ().

Utility Involvements:

- Georgia Power Company – Distribution
- Coastal Communications
- Comcast
- Liberty county Water & Sewer

Project responsibilities:

- Design, LIBERTY COUNTY
- Right of Way Acquisition, GA DOT
- Relocation of Utilities, LIBERTY COUNTY
- Letting to contract, GA DOT
- Supervision of construction, GA DOT
- Providing material pits, CONTRACTOR
- Providing detours. CONTRACTOR

Coordination

1. Concept meeting was held on June 16, 2006.
2. P.A.R. meeting will be required.
3. Public meeting(s) will be required.
4. Local government comments.
5. Other projects in the area. See Need and Purpose

Scheduling – Responsible Parties' Estimate

- Time to complete the environmental process: 12 Months.
- Time to complete preliminary construction plans: 6 Months.
- Time to complete right of way plans: 4 Months.
- Time to complete the Section 404 Permit: 9 Months.
- Time to complete final construction plans: 6 Months.
- Time to complete purchase of right of way: 12 Months.
- List other major items that will affect the project schedule: N/A Months.

Project Concept Report page 8
Project Number: STP-0004-00(917)
P. I. Number: 0004917
County: LIBERTY

Other alternates considered: NONE

Comments:

- Project Plans will be completed in English units.

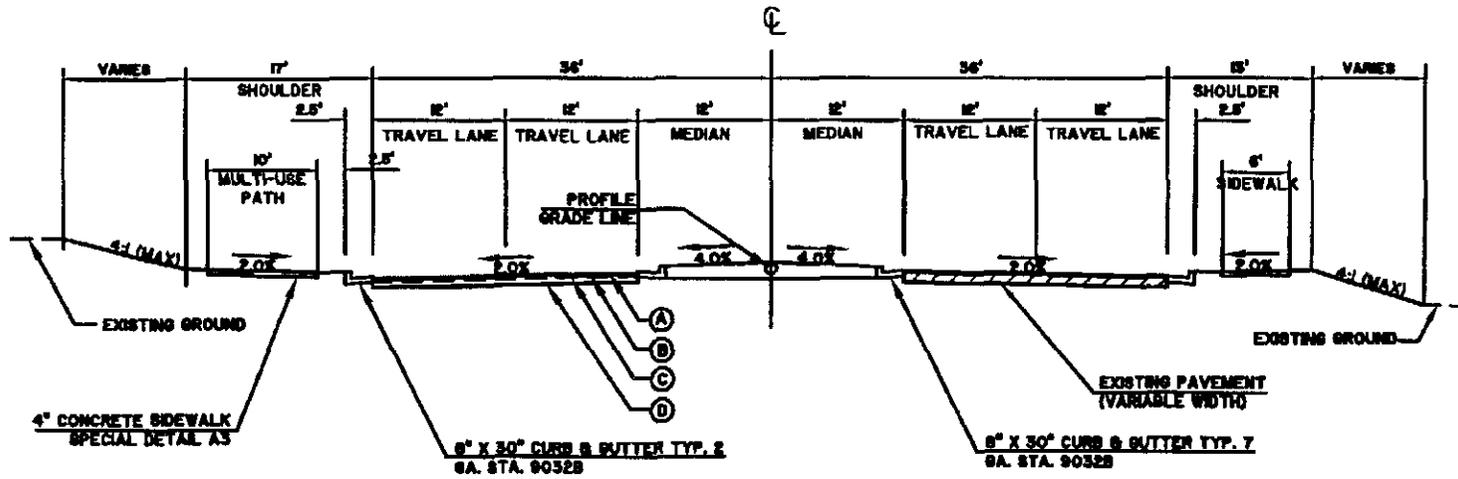
Attachments:

1. Typical Sections
2. Initial Cost Estimate
3. Traffic Analysis
4. Concept Team Meeting Minutes
5. Initial Concept Meeting Minutes
6. Final Concept Meeting Minutes
7. Right of Way Cost Estimate

ATTACHMENTS

Project Concept Report page 9
Project Number: STP-0004-00(917)
P. I. Number: 0004917
County: LIBERTY

PROJECT NO.: STP-0004-00(917)
COUNTY: LIBERTY



**STATE ROUTE 119 WIDENING
TYPICAL SECTION**

PREPARED BY:
THOMAS & HUTTON ENGINEERING CO.
SAVANNAH, GEORGIA

J-17490
NTS

PRELIMINARY COST ESTIMATE
OFFICE OF CONSULTANT DESIGN

DATE: 11/15/06

PREPARED BY: Thomas & Hutton Engineering Co.

PROJECT NO: STP-0004-00(917)

FILE NAME:

P.I. NO: #0004917

MILEAGE: 3.25 miles +/- SR 119

PROJECT DESCRIPTION/CONCEPT:

Project STP-0004-00(917) consists of the widening and reconstruction of State Route 119 in Liberty County.

EXISTING ROADWAY:

In this project the existing two-lane roadway is proposed to be widened to a four-lane divided roadway. The northern terminus of this project is State Route 196 and the southern terminus is U.S. 84. Within the project area, State Route 119 is functionally classified as a minor urban arterial.

TRAFFIC: CURRENT ADT

9100 PROJECTED ADT

20500

- () PROGRAMMING PROCESS
- (X) CONCEPT DEVELOPMENT
- () DURING PROJECT DEVELOPMENT

PROJECT COSTS

A. RIGHT OF WAY	lump sum		
		SUBTOTAL	\$0.00
B. UTILITIES (Reimbursable)	lump sum		
		SUBTOTAL	\$0.00
C. CLEARING AND GRUBBING	lump sum		
		SUBTOTAL	\$300,000.00
			\$300,000.00
D. EARTHWORK			
<u>Embankment</u>			
In-Place Embankment	110,000 cubic yards @	\$11.45	\$1,259,500.00
Borrow Incl Haul	0 cubic yards @	\$5.00	\$0.00

Excavation

Soil	40000 cubic yards @	\$6.98	\$279,200.00
Rock	0 cubic yards @	\$10.00	\$0.00

Miscellaneous

Wick Drains	0 linear feet @	\$1.00	\$0.00
Filter Fabric	0 square yards @	\$7.00	\$0.00
Channel Excavation	0 cubic yards @	\$6.75	\$0.00
Drill Holes	0 linear feet @	\$2.00	\$0.00

SUBTOTAL \$1,538,700.00

E. BASE AND PAVING

Aggregate Base

Graded Aggregate 6"	0 square yards @	\$11.02	\$0.00
Graded Aggregate 12"	125,000 square yards @	\$17.05	\$2,131,250.00

Asphalt Paving

12.5mm Superpave	10,315 tons @	\$74.16	\$764,960.40
19mm Superpave	7,700 tons @	\$61.20	\$471,240.00
25mm Superpave	15,400 tons @	\$63.86	\$983,444.00
Leveling	600 tons @	\$64.51	\$38,706.00
Tack Coat	19,500 gallons @	\$2.05	\$39,975.00

SUBTOTAL \$4,429,575.40

F. DRAINAGE

Cross Drain System

15" Conc. Pipe	0 linear feet @	\$23.00	\$0.00
18" Conc. Pipe	0 linear feet @	\$28.00	\$0.00
24" Conc. Pipe	0 linear feet @	\$36.41	\$0.00
30" Conc. Pipe	0 linear feet @	\$43.50	\$0.00
36" Conc. Pipe	0 linear feet @	\$53.22	\$0.00
42" Conc. Pipe	0 linear feet @	\$63.10	\$0.00
48" Conc. Pipe	0 linear feet @	\$72.84	\$0.00
15" F.E.S.	0 each @	\$289.01	\$0.00
18" F.E.S.	0 each @	\$374.83	\$0.00
24" F.E.S.	0 each @	\$390.96	\$0.00
30" F.E.S.	0 each @	\$519.30	\$0.00
36" F.E.S.	0 each @	\$628.51	\$0.00
42" F.E.S.	0 each @	\$752.59	\$0.00
48" F.E.S.	0 each @	\$1,300.00	\$0.00

<u>Longitudinal System</u>			
15" Conc. Pipe	0 linear feet @	\$20.00	\$0.00
18" Conc. Pipe	0 linear feet @	\$28.00	\$0.00
24" Conc. Pipe	0 linear feet @	\$1.00	\$0.00
<u>Drainage Structures</u>			
Catch Basins	0 each @	\$1,520.00	\$0.00
Drop Inlets	0 each @	\$1,200.00	\$0.00
Manholes	0 each @	\$1,430.00	\$0.00
<u>Drainage Lump Sum</u>			
Cost per Mile	3.25 miles @	\$350,000.00	\$1,137,500.00
		SUBTOTAL	\$1,137,500.00
G. CONCRETE WORK			
Approach Slabs	0 square yards @	\$120.00	\$0.00
Median Barrier - sidewalk	lump sum		\$0.00
Curb and Gutter (Type2)	34,740 linear feet @	\$36.80	\$1,278,432.00
Curb and Gutter (Type 7)	31,910 linear feet @	\$29.83	\$951,875.30
Valley Gutter	0 square yards @	\$30.00	\$0.00
Conc. Median Barrier, Method 2	0 linear feet @	\$23.00	\$0.00
Median Paving	0 square yards @	\$35.00	\$0.00
		SUBTOTAL	\$2,230,307.30
H. TRAFFIC CONTROL			
	lump sum		\$300,000.00
		SUBTOTAL	\$300,000.00
I. EROSION CONTROL			
	lump sum		\$200,000.00
		SUBTOTAL	\$200,000.00
J. GUARDRAIL			
	lump sum		\$0.00
		SUBTOTAL	\$0.00

K. SIGNS, STRIPING, SIGNALS, LIGHTING

Striping -signals - signs	lump sum		\$225,000.00
Roadside Signs	lump sum		\$0.00
Overhead Signs w/ Lights	each @	\$0.00	\$0.00
Traffic Signals	2 each @	\$44,650.00	\$89,300.00
Lighting	lump sum		\$0.00
		SUBTOTAL	\$314,300.00

L. GRASSING/LANDSCAPING

	lump sum		\$50,000.00
		SUBTOTAL	\$50,000.00

M. MISCELLANEOUS

	lump sum		\$65,000.00
		SUBTOTAL	\$65,000.00

N. MAJOR STRUCTURES

Bridge	0 square feet @	\$50.00	\$0.00
<u>Box Culverts</u>			
Concrete	cubic yards @	\$320.00	\$0.00
Bar Reinf. Steel	pounds @	\$0.50	\$0.00
		SUBTOTAL	\$0.00

ESTIMATE SUMMARY

A. Right of Way	\$8,000,000.00
B. Reimbursable Utilities	\$0.00

CONSTRUCTION COST SUMMARY

C. Clearing and Grubbing	\$300,000.00
D. Earthwork	\$1,538,700.00
E. Base and Paving	\$4,429,575.40
F. Drainage	\$1,137,500.00
G. Concrete Work	\$2,230,307.30
H. Traffic Control	\$300,000.00
I. Erosion Control	\$200,000.00
J. Guardrail	
K. Signs, Striping, Signals, Lighting	\$314,300.00
L. Grassing/Landscaping	\$50,000.00
M. Miscellaneous	\$65,000.00

SUBTOTAL CONSTRUCTION \$10,565,382.70

N. Major Structures	\$0.00
---------------------	--------

SUBTOTAL \$10,565,382.70

0 Years of			\$0.00
10 % E & C	Inflation at	0 %	\$1,056,538.27

TOTAL CONSTRUCTION ESTIMATE \$11,621,920.97

SR 119 WIDENING

TRAFFIC ANALYSIS

LIBERTY COUNTY, GA

October 2005

Prepared for:
Liberty County, GDOT

J-17490.402

SR 119 and 15th Street Widening – Traffic Analysis

LOCATION

SR 119 is planned to be widened from a two-lane roadway to a multi-lane facility between US 84 and the Fort Stewart Gate 7. The proposed project is located in Liberty County, within the town limits of Walthourville and Hinesville.

Widening along SR 119 is planned to occur between US 84 and SR 196. North of SR 196, SR 119 is re-designated as 15th Street, which leads to Fort Stewart's Gate 7. This section of 15th Street is also planned to be widened. The location is shown in Figure 1.

ROADWAY CONDITIONS

SR 119, also known as Airport Road, is currently a two-lane facility. It connects US 84 near Walthourville to GA 196 and continues as 15th Street up to Gate 7 of Fort Stewart. SR 119 between US 84 and GA 196 is classified as an Urban Minor Arterial. Between GA 186 and Fort Stewart, it is currently classified as a Local Road.

Between US 84 and SR 196, land uses along SR 119 vary. Near US 84, SR 119 provides access to the Liberty County airport. North of the airport, SR 119 serves a mix of residential, commercial, and institutional uses. Several schools are located along SR 119.

North of SR 196, land along 15th Street is relatively undeveloped. The area close to SR 196 has some small commercial and residential areas. An elementary school is also served by 15th Street. The undeveloped area between SR 196 and Fort Stewart, however, is planned to be developed in the near future.

CURRENT TRAFFIC VOLUMES

GDOT count station 147 is located on SR 119 near the Liberty County airport (MP 12.45). Count station 121 is located on SR 196 east of its intersection with SR 119 (MP 15.69).

As part of this study, daily counts were taken in May of 2005. Three days of data were obtained using machine tube counters. Counts were taken at the approximate locations of the GDOT count stations. The average daily volumes taken in May of 2005, along with recent GDOT count station data, are shown in Table 1.

Table 1. Recent counts and GDOT historical data

Year	SR 119 (vehicles per day)	SR 196 (vehicles per day)
Counts taken May 2005		
May 2005	9,110	14,840
GDOT Count Stations (147 and 121)		
2004	8,290	15,820
2003	8,140	14,890

Peak hour volumes along SR 119 showed approximately 710 vehicles per hour in the morning peak, with approximately 60% of the traffic headed south. In the afternoon, volumes were slightly higher, at approximately 775 vehicles per hour, with a roughly even directional split.

Daily volumes taken show increases along SR 119 between US 84 and SR 196, a continuing trend based on recent GDOT count station data. Counts taken in 2005 on SR 196 were slightly lower than in 2004, and at roughly the same levels as in 2003.

According to a recent traffic study done for Ft. Stewart, Gate 7 currently serves approximately 5,700 vehicles per day.

SAFETY ANALYSIS

According to GDOT collision records, there were 103 reported collisions along SR 119 (between US 84 and GA 196) from 2001-2003. Collision rates for each year, along with the Statewide Average collision rates for Urban Minor Arterials, are shown in Table 2.

Table 2. Collision Rates (in collisions, or injuries, per 100 million vehicle miles)

Roadway	2001		2002		2003		Overall (01-03)	
	Accident Rate	Injury Rate	Accident Rate	Injury Rate	Accident Rate	Injury Rate	Accident Rate	Injury Rate
SR 119	397	346	615	641	466	194	493	394
Statewide Average	550	218	568	218	572	218	563	218

As shown, the collision rate along SR 119 exceeded the statewide average for Urban Minor Arterials in 2002. The injury rate exceeded the statewide average in 2001 and 2002. Averaged over the three year period, the collision rate was slightly lower than the average, but the injury rate was higher. There were no fatal collisions along the route in 2001, 2002, or 2003.

2005 CAPACITY ANALYSES

Turning movements were counted at all of the major intersections along the route in May 2005. Counts were taken on a weekday from 7 AM to 9 AM and from 4 PM to 6 PM. Peak hour turning movement counts are shown in Figure 2.

Based on the counts taken in May 2005, the roadway and intersections are all functioning at relatively high Levels of Service. Table 3 shows the Levels of Service for each intersection. Overall LOS is shown for signalized intersections; LOS at unsignalized intersections represents the side street operational conditions.

Table 3. 2005 Levels of Service

INTERSECTION	AM PEAK		PM PEAK	
	LOS	DELAY (SEC)	LOS	DELAY (SEC)
US 84 and SR 119 (signalized)	A	8	A	7
SR 119 and Shaw Drive (Shaw approach)	B	11	B	13
SR 119 and Hardman Road (Hardman approach)	B	12	B	14
SR 119 and Barry McCaffrey/Industrial Drive (McCaffrey approach)	A	9	A	9
SR 119 and Stonehenge Drive (Stonehenge approach)	B	12	B	12
SR 119 and Deveraux/Westchester Drive (Deveraux approach)	C	16	C	16
SR 119 and Waterfield Drive (Waterfield approach)	C	17	C	15
SR 119 and GA 196 (signalized)	A	6	A	7
SR 119 and Parkland Drive (Parkland approach)	B	12	B	12

PLANNED DEVELOPMENT

A large mixed-use development, Independence, is planned to be built with approximately 10,800 residential dwelling units and 2 million square feet of commercial space. The Independence development is planned to provide a diverse mixture of residential and commercial uses to suit the current and projected needs of Hinesville and Fort Stewart. The primary access to Independence will be on 15th Street.

A secondary access to the development is planned on Dairy Road, but the majority of Independence will use 15th Street. A town center area, the main amenity center, and all of the commercial uses are planned along 15th Street.

2030 PROJECTED VOLUMES

GDOT recently completed a regional transportation model for the Liberty County and Long County area. Future estimates of the population and land uses were made in coordination with Liberty County officials, Fort Stewart representatives, and GDOT officials.

Several assumptions were made in developing the future population forecasts. A main assumption made was the population would continue to increase, not only from local residents and births, but also from in-migration from other parts of the country. Another assumption was the continued use and expansion of Fort Stewart. With apparent base closures and relocations globally, Fort Stewart appears to be not affected by any of the future developments within the military.

Regional planners, in association with GDOT and Ft. Stewart, agreed upon reasonable assumptions regarding the rate of development in planned area developments, such as Independence. The assumptions made are fairly conservative, and provide a framework in which population forecasts can be constructed. In time, these forecasts may actually prove to be low.

Based on the transportation model output, the 2030 projected volumes for SR 119 are approximately 20,100 to 20,900 vehicles per day (vpd) along the section between US 84 and GA 196. This represents an increase of approximately 125% over the existing daily volumes. North of GA 196, volumes on 15th Street are projected to be approximately 13,500 vehicles per day, which is also an increase of approximately 125% over the existing estimated volumes of approximately 6,000 vpd.

In contrast, volumes on GA 196 near the SR 119 intersection are expected to rise to approximately 18,000 vpd in 2030 (closer to Hinesville volumes on SR 196 are expected to be significantly higher), an approximately 25% increase. Volumes on GA 84 near the SR 119 intersection are expected to be approximately 28,000 vpd, a 75% increase over the current daily volume of approximately 16,000 vpd.

To estimate the 2030 volumes at specific intersections, as a general assumption, the peak hour counts that were taken in 2005 are increased by the amounts mentioned above. The estimated volumes are shown in Figure 3.

Using the assumed 2030 volumes, capacity analyses were completed with and without the proposed widening improvements. Table 4 shows the resulting operational conditions if SR 119 were to remain in its current configuration.

Table 4. 2030 Levels of Service without roadway improvements

INTERSECTION	AM PEAK		PM PEAK	
	LOS	DELAY (SEC)	LOS	DELAY (SEC)
US 84 and SR 119 (signalized)	B	12	B	19
SR 119 and Shaw Drive (Shaw approach)	D	29	F	171
SR 119 and Hardman Road (Hardman approach)	F	110	F	438
SR 119 and Barry McCaffrey/Industrial Drive (McCaffrey approach)	C	21	E	49
SR 119 and Stonehenge Drive (Stonehenge approach)	F	76	D	31
SR 119 and Deveraux/Westchester Drive (Deveraux approach)	F	345	F	212
SR 119 and Waterfield Drive (Waterfield approach)	F	516	F	187
SR 119 and GA 196 (signalized)	B	19	B	19
SR 119 and Parkland Drive (Parkland approach)	D	27	D	26

As expected, traffic growth has the potential to cause many of the unsignalized approaches to the major roadway to operate poorly. The existing signals, which currently have auxiliary turn lanes on all approaches, could continue to operate at reasonable levels.

Assuming a general widening of SR 119 and 15th Street to a multi-lane facility, the 2030 intersection Levels of Service would be as shown in Table 5 (assuming the same volumes used in Table 4).

Table 5. 2030 Levels of Service with widening

INTERSECTION	AM PEAK		PM PEAK	
	LOS	DELAY (SEC)	LOS	DELAY (SEC)
US 84 and SR 119 (signalized)	B	11	B	14
SR 119 and Shaw Drive (Shaw approach)	B	15	C	22
SR 119 and Hardman Road (Hardman approach)	C	22	D	33
SR 119 and Barry McCaffrey/Industrial Drive (McCaffrey approach)	B	10	B	11
SR 119 and Stonehenge Drive (Stonehenge approach)	C	18	B	14
SR 119 and Deveraux/Westchester Drive (Deveraux approach)	C	24	C	22
SR 119 and Waterfield Drive (Waterfield approach)	C	30	C	24
SR 119 and GA 196 (signalized)	B	18	B	12
SR 119 and Parkland Drive (Parkland approach)	B	13	C	17

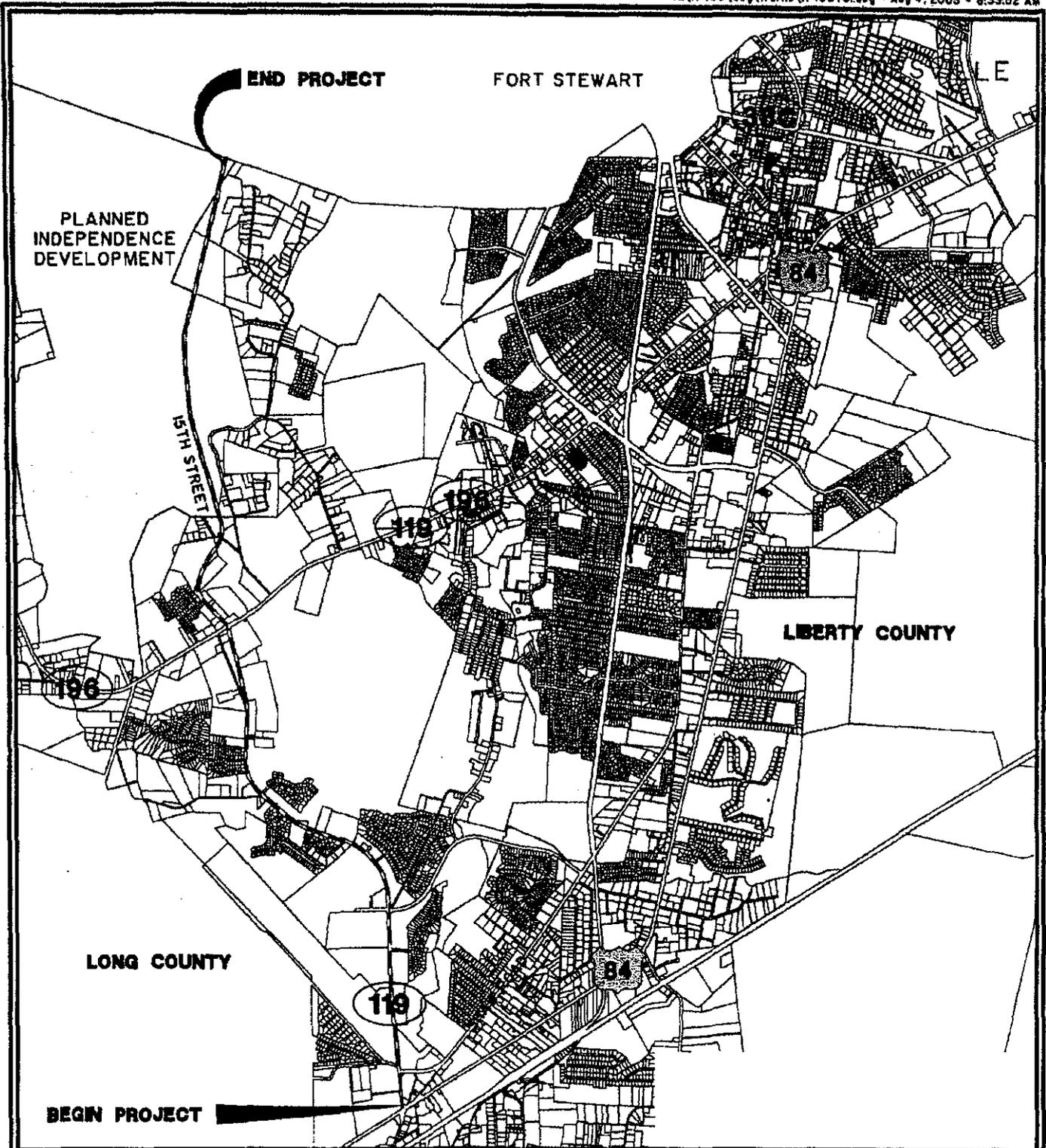
Widening the main roadway to a five-lane section would substantially improve the through capacity. Operations of the side streets would be greatly improved with the addition of turn lanes and a median that could allow a two-stage movement.

CORRIDOR LEVEL OF SERVICE

A general Level of Service analysis was calculated using the daily volumes along SR 119. The Highway Capacity Manuals "two-lane highway" and "multi-lane highway" analysis procedures were used for the various scenarios. Peak hour volumes are assumed to be approximately 9% of the daily volumes.

Table 6. Corridor analysis - existing and future conditions

ROADWAY CONDITION	VOLUME	PEAK HOUR LEVEL OF SERVICE
2005		
SR 119 - existing configuration, 2-lane highway	9,100 vehicles per day	LOS D
2030		
SR 119 - existing configuration, 2-lane highway	20,500 vehicles per day	LOS E
SR 119 - proposed widening, multi-lane highway	20,500 vehicles per day	LOS B



LIBERTY COUNTY

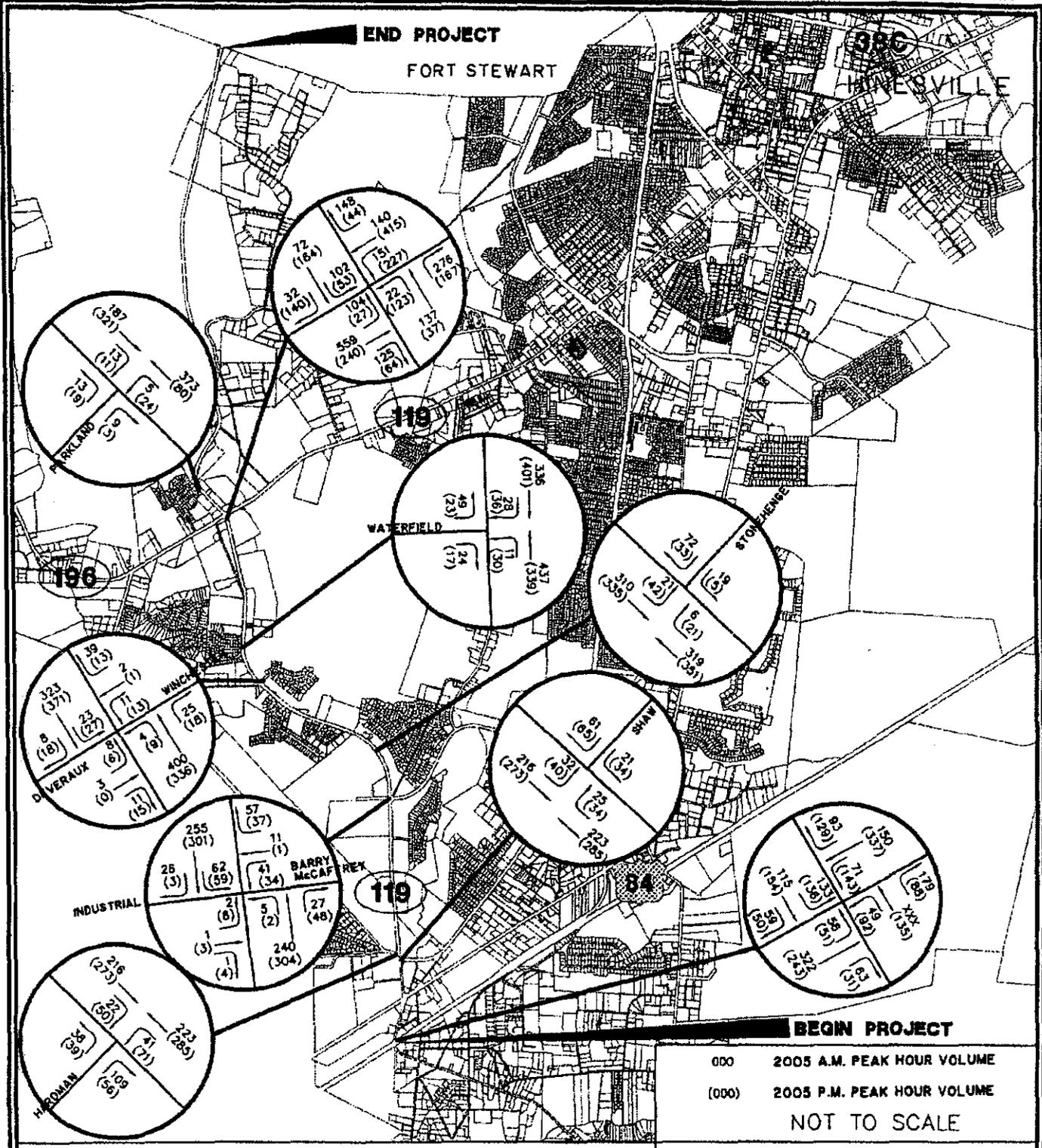
SR 119 WIDENING & RECONSTRUCTION

FIGURE 1: VICINITY MAP



THOMAS & HUTTON ENGINEERING CO.

935 HOUSTON NORTHCUTT BOULEVARD
MOUNT PLEASANT S.C. 29454
(843)849-0200

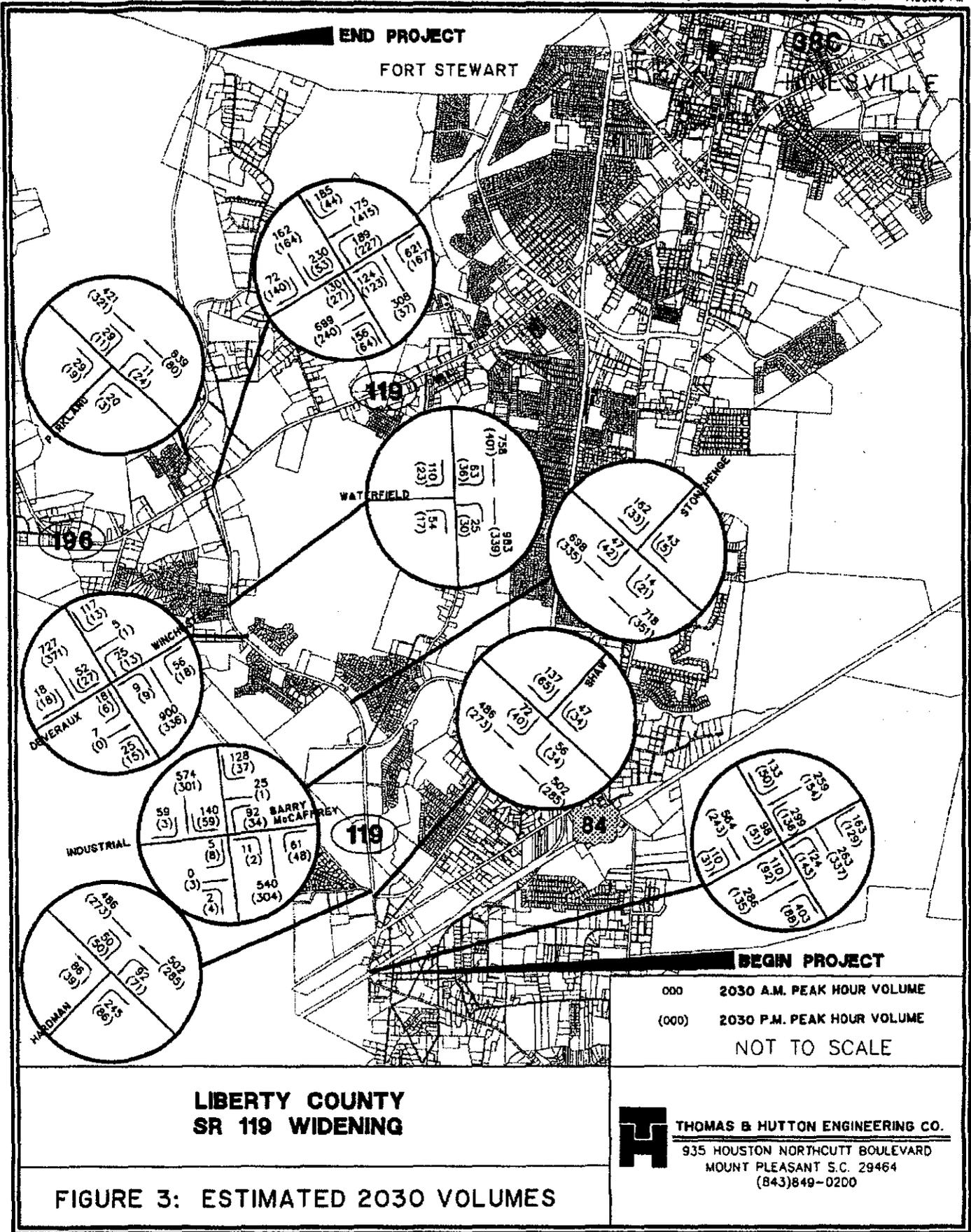


000 2005 A.M. PEAK HOUR VOLUME
 (000) 2005 P.M. PEAK HOUR VOLUME
 NOT TO SCALE

**LIBERTY COUNTY
 SR 119 WIDENING**

THOMAS & HUTTON ENGINEERING CO.
 935 HOUSTON NORTH CUTT BOULEVARD
 MOUNT PLEASANT S.C. 29464
 (843)849-0200

FIGURE 2: CURRENT (2005) VOLUMES



000 2030 A.M. PEAK HOUR VOLUME
 (000) 2030 P.M. PEAK HOUR VOLUME
 NOT TO SCALE

Traffic Counts

TDC
WEEKLY SUMMARY
Starting: 5/17/05

Page: 2

Counter ID: 00000004473
Project No.: 00000005568
Location: Airport Rd. north of Stonehedge Dr., Hinesville, Ga

File: 5568-01A.prn
User: BCE
Direction: SOUTH

TIME	MON		TUE 17		WED 18		THU 19		FRI		SAT		SUN		WK TOT		WK AVG	
	am	pm	am	pm	am	pm	am	pm	am	pm	am	pm	am	pm	am	pm	am	pm
00:15			13	56	6	54	9	68							28	176	9	58
00:30			7	56	5	49	5	83							17	168	5	56
00:45			5	62	7	68	12	46							24	176	8	58
01:00			7	77	4	53	6	68							17	196	5	65
01:15			10	69	2	77	6	71							18	217	6	72
01:30			4	63	7	56	4	43							15	162	5	54
01:45			3	72	3	57	3	69							9	198	3	66
02:00			5	55	3	51	8	46							16	152	5	50
02:15			3	73	4	87	8	68							15	206	5	68
02:30			5	95	3	75	1	94							9	264	3	88
02:45			0	74	6	61	0	61							6	196	2	65
03:00			0	78	3	51	5	66							8	195	2	65
03:15			9	58	5	67	5	76							19	201	6	67
03:30			4	83	0	81	2	92							6	256	2	85
03:45			9	88	6	63	6	67							21	218	7	72
04:00			2	99	6	87	4	100							12	286	4	95
04:15			1	102	3	97	5	98							9	297	3	99
04:30			9	93	4	84	5	94							18	271	6	90
04:45			14	96	13	88	9	75							36	259	12	86
05:00			12	97	5	98	10	90							27	285	9	95
05:15			8	137	3	122	7	120							18	379	6	126
05:30			9	91	8	87	8	90							25	268	8	89
05:45			13	74	21	68	18	94							52	236	17	78
06:00			27	85	20	78	21	88							88	251	22	83
06:15			24	77	33	78	30	78							87	233	29	77
06:30			42	71	32	71	41	45							115	187	38	62
06:45			32	68	42	55	45	85							119	208	39	69
07:00			54	55	44	52	54	60							152	167	50	55
07:15			50	54	52	60	56	60							158	174	52	58
07:30			65	46	88	49	77	52							230	147	76	49
07:45			103	50	105	50	117	50							325	150	108	50
08:00			99	61	95	43	105	53							299	157	99	52
08:15			49	46	55	47	64	56							168	149	56	49
08:30			57	40	46	50	52	46							155	136	51	45
08:45			47	32	53	45	52	36							152	113	50	37
09:00			49	26	54	26	51	39							154	93	51	31
09:15			55	17	54	46	62	59							171	122	57	40
09:30			51	30	45	38	53	28							149	96	49	32
09:45			67	27	88	24	69	32							204	83	68	27
10:00			67	28	48	27	54	19							169	74	58	24
10:15			64	28	63	24	48	35							175	87	58	29
10:30			65	18	72	20	63	15							200	53	68	17
10:45			69	20	59	26	57	19							185	65	61	21
11:00			53	23	58	11	66	16							177	50	59	16
11:15			73	10	76	19	78	22							227	51	75	17
11:30			50	15	58	13	60	16							168	44	56	14
11:45			62	9	54	11	67	13							183	33	61	11
12:00			59	4	61	13	76	17							196	34	65	11

TOTALS	0	4373	4201	4458	0	0	0	13030	4313
AM Times		7:15	7:30	7:30					
AM Peaks		317	343	363					
PM Times		18:30	16:45	17:00					
PM Peaks		423	395	394					

TDC
WEEKLY SUMMARY
Starting: 5/17/05

Page: 1

Counter ID: 00000003874
Project No.: 00000005568
Location: EG Miles Pkwy EB west of Live Oak Church Rd, Hinesville, Ga

File: 5568-02A.prn
User: BCE
Direction: EAST

TIME	MON		TUE 17		WED 18		THU 19		FRI		SAT		SUN		WK TOT		WK AVG	
	am	pm	am	pm	am	pm	am	pm	am	pm	am	pm	am	pm	am	pm	am	pm
00:15			11	94	5	95	16	116							32	305	10	101
00:30			7	115	12	98	12	103							31	316	10	108
00:45			8	106	3	109	10	109							21	324	7	108
01:00			3	92	9	93	5	112							17	297	5	99
01:15			3	97	6	113	10	116							19	328	6	108
01:30			3	95	10	112	7	114							20	321	6	107
01:45			4	111	5	108	2	109							11	328	3	108
02:00			1	90	7	107	2	94							10	291	3	97
02:15			6	95	5	107	3	88							14	290	4	96
02:30			3	153	2	146	3	141							8	440	2	146
02:45			2	109	2	95	2	102							6	308	2	102
03:00			6	93	5	121	8	103							19	317	6	105
03:15			6	104	6	97	9	115							21	316	7	105
03:30			4	108	6	137	4	118							14	363	4	121
03:45			6	115	6	115	10	117							22	347	7	115
04:00			8	133	8	110	4	95							20	338	6	112
04:15			17	112	14	116	15	129							46	357	15	119
04:30			14	104	12	107	9	112							35	323	11	107
04:45			24	98	16	115	13	115							53	328	17	109
05:00			15	116	19	113	22	125							56	354	18	118
05:15			24	140	16	143	15	144							55	427	18	142
05:30			23	130	26	138	31	113							80	381	26	127
05:45			43	113	39	135	54	117							136	365	45	121
06:00			65	122	67	108	66	108							198	338	66	112
06:15			92	103	78	125	69	117							239	345	79	115
06:30			100	110	99	91	104	101							303	302	101	100
06:45			154	124	175	111	159	87							488	302	162	100
07:00			224	107	210	96	207	81							641	284	213	94
07:15			241	61	248	72	237	93							728	226	242	75
07:30			268	71	255	70	289	93							812	234	270	78
07:45			262	82	278	71	251	91							791	224	263	74
08:00			194	51	188	72	196	73							578	196	192	65
08:15			124	60	106	70	129	79							359	209	119	69
08:30			130	57	130	81	118	70							378	208	126	69
08:45			123	42	142	83	123	47							388	172	129	57
09:00			120	42	140	47	119	58							379	147	126	49
09:15			90	57	92	55	86	59							268	171	89	57
09:30			97	39	83	36	113	58							293	133	97	44
09:45			122	44	130	53	90	58							342	155	114	51
10:00			89	37	93	41	111	40							293	118	97	39
10:15			79	47	74	31	94	45							247	123	82	41
10:30			92	38	75	40	91	41							258	117	86	39
10:45			109	35	86	34	116	39							311	108	103	36
11:00			84	35	109	40	117	28							310	103	103	34
11:15			102	23	127	22	142	35							371	80	123	28
11:30			82	18	83	26	121	29							286	73	95	24
11:45			71	14	107	10	117	28							295	50	98	16
12:00			100	14	88	9	96	14							284	37	94	12

TOTALS	0		7389		7622		7784		0		0		0		22795		7561	

AM Times			7:00		7:00		7:00											
AM Peaks			995		991		984											

PM Times			17:15		17:00		17:00											
PM Peaks			505		529		498											

Job: 05568

HINESVILLE, GA.

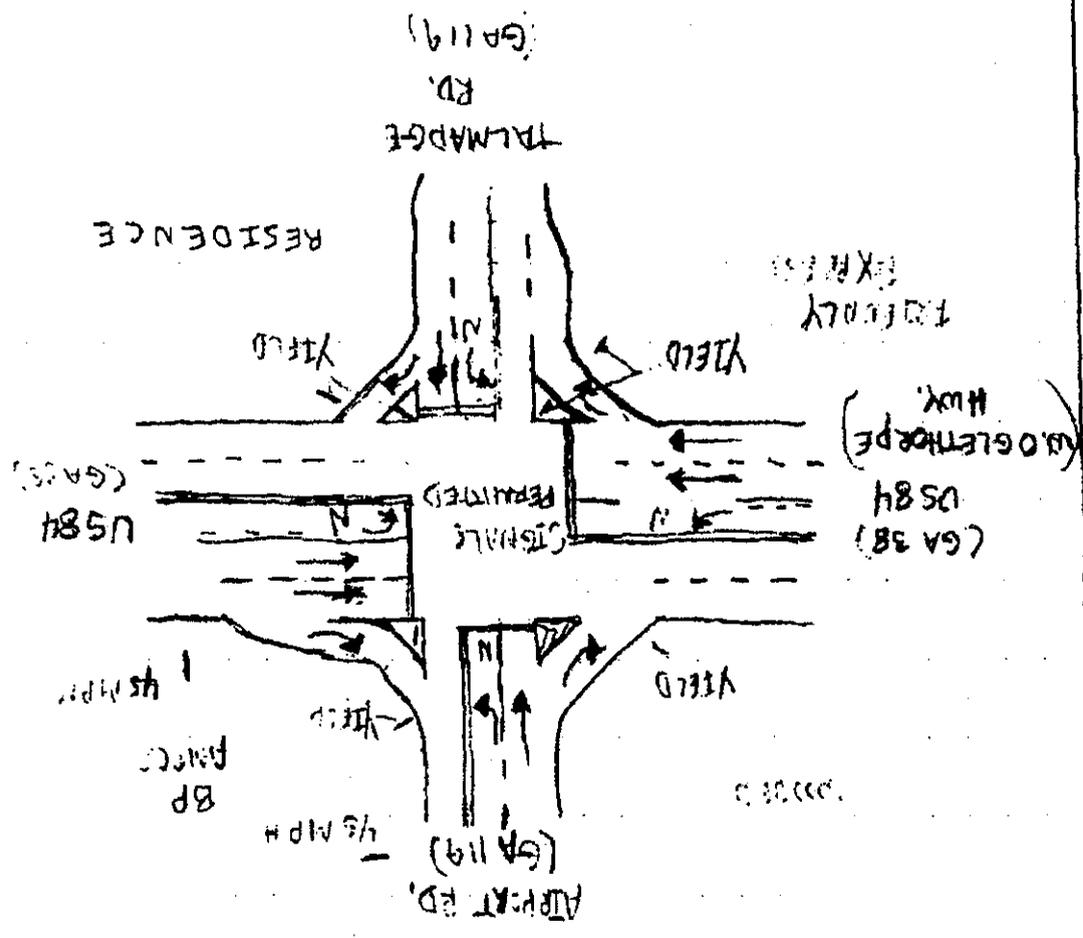
TRAFFIC DATA COLLECTION, INC.
434 LINDA OAK DRIVE, FLEMING, GA 30426
PH 800 282-2000 FAX 800 282-9371

Street Name: Airport Rd & US-84



INTERSECTION CONFIGURATION

Sheet Title: 09



Name: J. M. / CS
Date: 05/11/05
Contract No.: 05-055

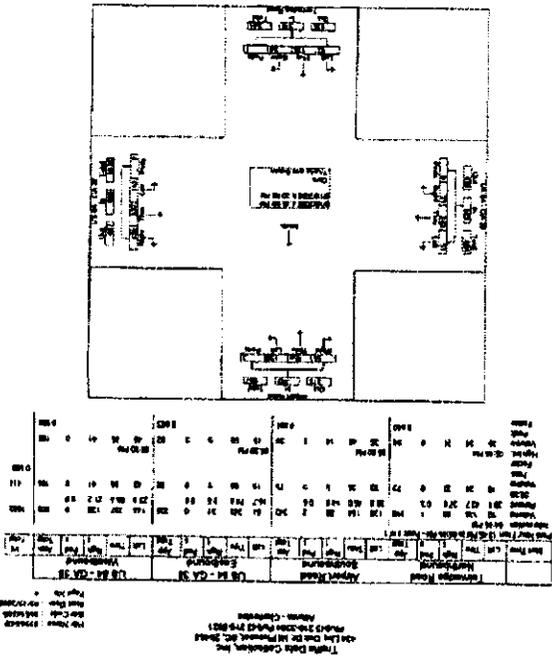


Table with 4 columns: Room Name, Area, Volume, and other metrics. The table lists various rooms and their corresponding values.

Room Name	Area	Volume	Other Metrics
RECEPTION	100	1000	...
Room 1	150	1500	...
Room 2	150	1500	...
Room 3	150	1500	...
Room 4	150	1500	...

Title Data Corporation, Inc.
 2100 West 10th Street, Suite 2100
 Omaha, Nebraska 68102
 Phone: (402) 442-1111
 Fax: (402) 442-1112

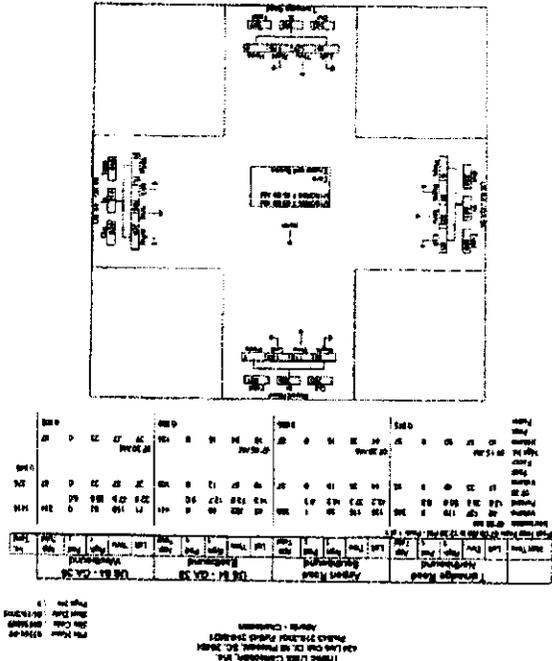
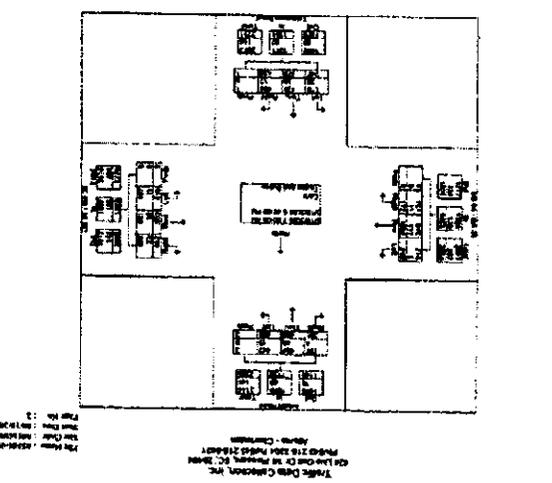


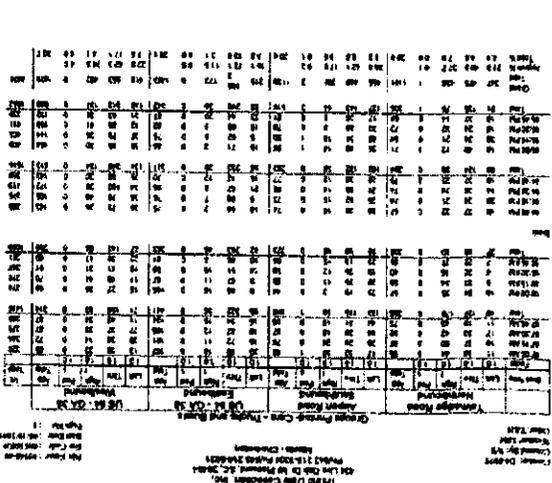
Table with 4 columns: Room Name, Area, Volume, and other metrics. The table lists various rooms and their corresponding values.

Room Name	Area	Volume	Other Metrics
RECEPTION	100	1000	...
Room 1	150	1500	...
Room 2	150	1500	...
Room 3	150	1500	...
Room 4	150	1500	...

Title Data Corporation, Inc.
 2100 West 10th Street, Suite 2100
 Omaha, Nebraska 68102
 Phone: (402) 442-1111
 Fax: (402) 442-1112



Title Data Corporation, Inc.
 2100 West 10th Street, Suite 2100
 Omaha, Nebraska 68102
 Phone: (402) 442-1111
 Fax: (402) 442-1112



Title Data Corporation, Inc.
 2100 West 10th Street, Suite 2100
 Omaha, Nebraska 68102
 Phone: (402) 442-1111
 Fax: (402) 442-1112

TRAFFIC DATA COLLECTION, INC.
480 LINDEN OAK DRIVE, FARMERS BRIDGE, GA 30528
TEL: 404-252-2200 FAX: 404-252-2201

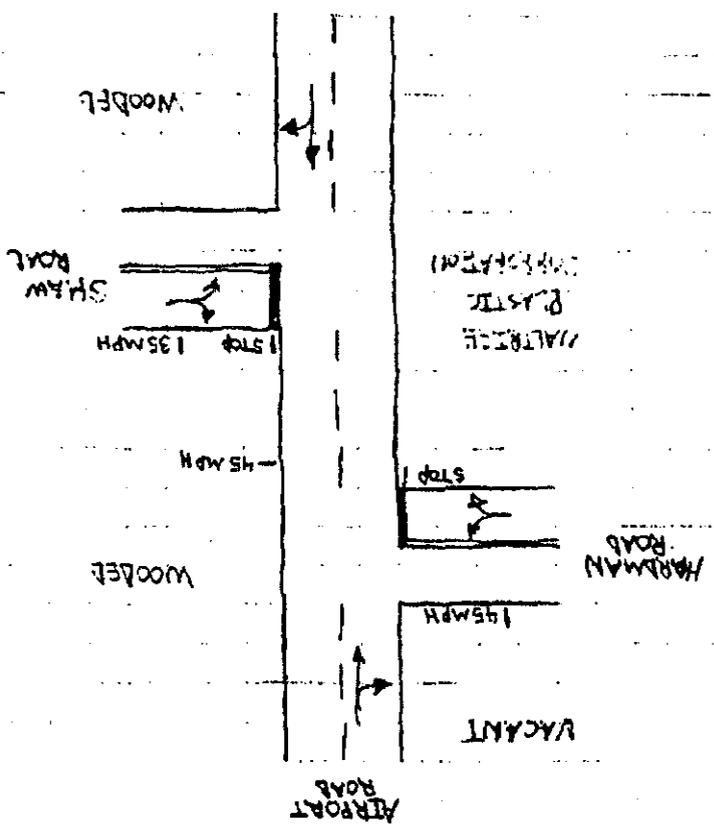
SHAW RD/HARDMAN RD, ALLESTREE, GA
JOB # 05568



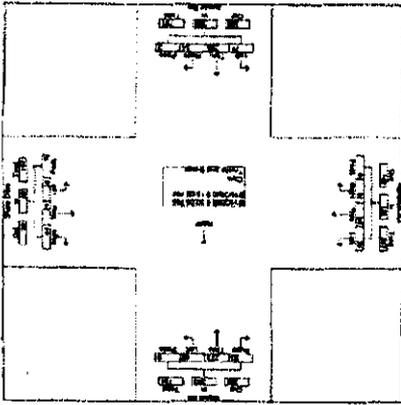
INTERSECTION CONFIGURATION

BE NO. 08

SHAW TRM 7-9A:4-CP

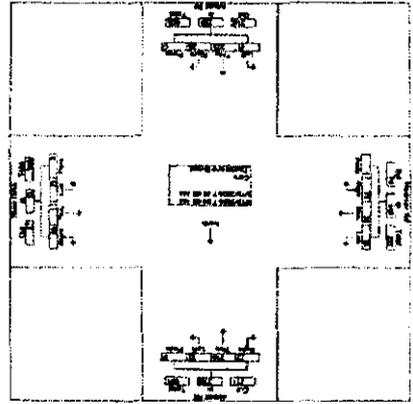


Name: TC
Date: 5-19-05
Counter No: DH 2373



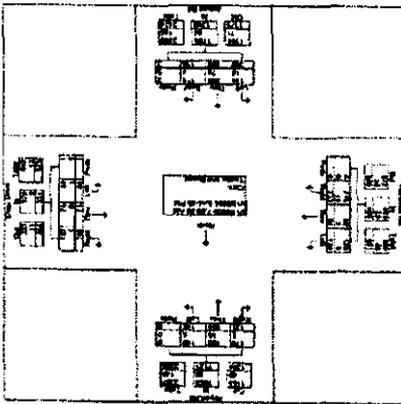
Room No.	Room Name	Area (sq. ft.)	Volume (cu. ft.)	Height (ft.)	Notes
101	Office	120	1440	12	
102	Office	120	1440	12	
103	Office	120	1440	12	
104	Office	120	1440	12	
105	Office	120	1440	12	
106	Office	120	1440	12	
107	Office	120	1440	12	
108	Office	120	1440	12	
109	Office	120	1440	12	
110	Office	120	1440	12	
111	Office	120	1440	12	
112	Office	120	1440	12	
113	Office	120	1440	12	
114	Office	120	1440	12	
115	Office	120	1440	12	
116	Office	120	1440	12	
117	Office	120	1440	12	
118	Office	120	1440	12	
119	Office	120	1440	12	
120	Office	120	1440	12	

Trade Data Collection, Inc.
 44140 Old Dixie Road, P.O. Box 2000
 Raleigh, NC 27601
 Phone: (919) 877-7000
 Fax: (919) 877-7001



Room No.	Room Name	Area (sq. ft.)	Volume (cu. ft.)	Height (ft.)	Notes
101	Office	120	1440	12	
102	Office	120	1440	12	
103	Office	120	1440	12	
104	Office	120	1440	12	
105	Office	120	1440	12	
106	Office	120	1440	12	
107	Office	120	1440	12	
108	Office	120	1440	12	
109	Office	120	1440	12	
110	Office	120	1440	12	
111	Office	120	1440	12	
112	Office	120	1440	12	
113	Office	120	1440	12	
114	Office	120	1440	12	
115	Office	120	1440	12	
116	Office	120	1440	12	
117	Office	120	1440	12	
118	Office	120	1440	12	
119	Office	120	1440	12	
120	Office	120	1440	12	

Trade Data Collection, Inc.
 44140 Old Dixie Road, P.O. Box 2000
 Raleigh, NC 27601
 Phone: (919) 877-7000
 Fax: (919) 877-7001



Room No.	Room Name	Area (sq. ft.)	Volume (cu. ft.)	Height (ft.)	Notes
101	Office	120	1440	12	
102	Office	120	1440	12	
103	Office	120	1440	12	
104	Office	120	1440	12	
105	Office	120	1440	12	
106	Office	120	1440	12	
107	Office	120	1440	12	
108	Office	120	1440	12	
109	Office	120	1440	12	
110	Office	120	1440	12	
111	Office	120	1440	12	
112	Office	120	1440	12	
113	Office	120	1440	12	
114	Office	120	1440	12	
115	Office	120	1440	12	
116	Office	120	1440	12	
117	Office	120	1440	12	
118	Office	120	1440	12	
119	Office	120	1440	12	
120	Office	120	1440	12	

Trade Data Collection, Inc.
 44140 Old Dixie Road, P.O. Box 2000
 Raleigh, NC 27601
 Phone: (919) 877-7000
 Fax: (919) 877-7001

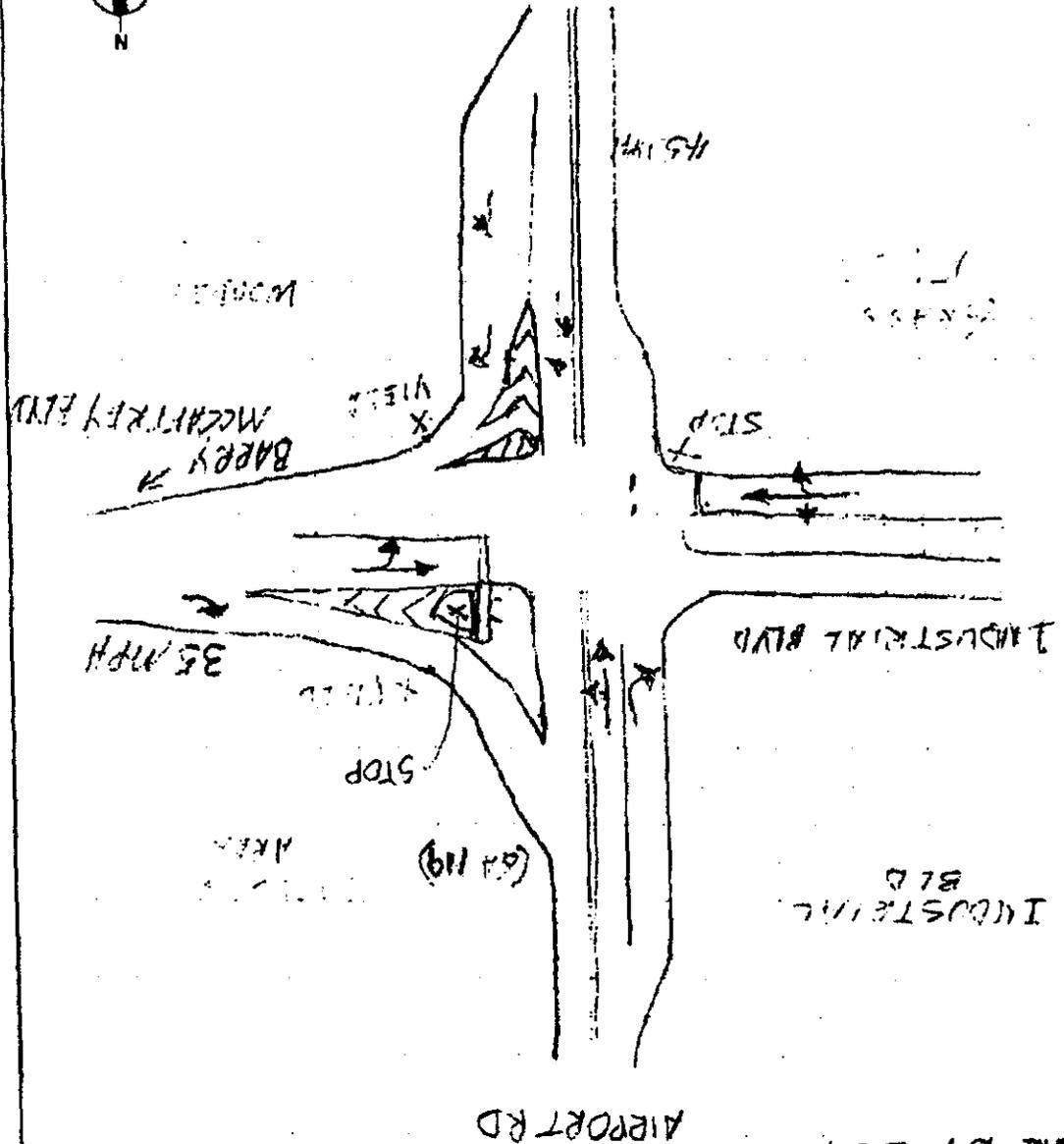
Room No.	Room Name	Area (sq. ft.)	Volume (cu. ft.)	Height (ft.)	Notes
101	Office	120	1440	12	
102	Office	120	1440	12	
103	Office	120	1440	12	
104	Office	120	1440	12	
105	Office	120	1440	12	
106	Office	120	1440	12	
107	Office	120	1440	12	
108	Office	120	1440	12	
109	Office	120	1440	12	
110	Office	120	1440	12	
111	Office	120	1440	12	
112	Office	120	1440	12	
113	Office	120	1440	12	
114	Office	120	1440	12	
115	Office	120	1440	12	
116	Office	120	1440	12	
117	Office	120	1440	12	
118	Office	120	1440	12	
119	Office	120	1440	12	
120	Office	120	1440	12	

Trade Data Collection, Inc.
 44140 Old Dixie Road, P.O. Box 2000
 Raleigh, NC 27601
 Phone: (919) 877-7000
 Fax: (919) 877-7001

TRAFFIC DATA COLLECTION, INC.
FOR THE CITY OF TAMPA FLORIDA BY ORDER
OF THE CITY ENGINEER
DATE: 5-19-05
PROJECT NO. 05565

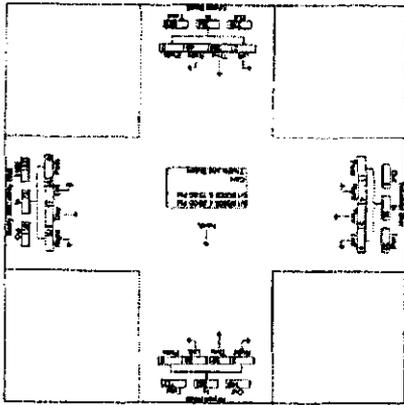
Sheet Title
INTERSECTION CONFIGURATION
Street Name: **AIRPORT RD. (5119)**
BARRY McCAFFREY BLVD

Sheet No.
07



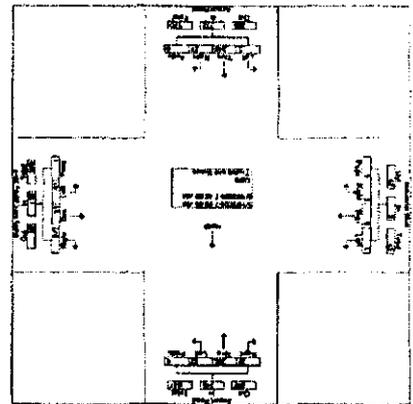
Name: **JV**
Date: **5-19-05**
Drawing No.: **D4-2511**

AIRPORT RD



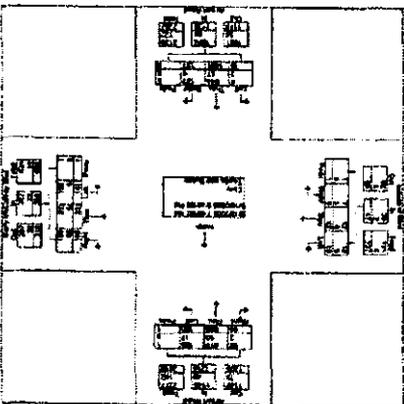
Room No.	Room Name	Area (sq. ft.)	Volume (cu. ft.)	Weight (lb.)	Notes
101	STORAGE ROOM	100	1000	10000	
102	OFFICE	50	500	5000	
103	OFFICE	50	500	5000	
104	OFFICE	50	500	5000	
105	OFFICE	50	500	5000	
106	OFFICE	50	500	5000	
107	OFFICE	50	500	5000	
108	OFFICE	50	500	5000	
109	OFFICE	50	500	5000	
110	OFFICE	50	500	5000	
111	OFFICE	50	500	5000	
112	OFFICE	50	500	5000	
113	OFFICE	50	500	5000	
114	OFFICE	50	500	5000	
115	OFFICE	50	500	5000	
116	OFFICE	50	500	5000	
117	OFFICE	50	500	5000	
118	OFFICE	50	500	5000	
119	OFFICE	50	500	5000	
120	OFFICE	50	500	5000	

Table Data Collection, Inc.
 421 Linn Ave. Dr. in Phoenix, AZ 85004
 Phone: 602-998-2182
 FAX: 602-998-2183
 E-Mail: info@table.com



Room No.	Room Name	Area (sq. ft.)	Volume (cu. ft.)	Weight (lb.)	Notes
101	STORAGE ROOM	100	1000	10000	
102	OFFICE	50	500	5000	
103	OFFICE	50	500	5000	
104	OFFICE	50	500	5000	
105	OFFICE	50	500	5000	
106	OFFICE	50	500	5000	
107	OFFICE	50	500	5000	
108	OFFICE	50	500	5000	
109	OFFICE	50	500	5000	
110	OFFICE	50	500	5000	
111	OFFICE	50	500	5000	
112	OFFICE	50	500	5000	
113	OFFICE	50	500	5000	
114	OFFICE	50	500	5000	
115	OFFICE	50	500	5000	
116	OFFICE	50	500	5000	
117	OFFICE	50	500	5000	
118	OFFICE	50	500	5000	
119	OFFICE	50	500	5000	
120	OFFICE	50	500	5000	

Table Data Collection, Inc.
 421 Linn Ave. Dr. in Phoenix, AZ 85004
 Phone: 602-998-2182
 FAX: 602-998-2183
 E-Mail: info@table.com



Room No.	Room Name	Area (sq. ft.)	Volume (cu. ft.)	Weight (lb.)	Notes
101	STORAGE ROOM	100	1000	10000	
102	OFFICE	50	500	5000	
103	OFFICE	50	500	5000	
104	OFFICE	50	500	5000	
105	OFFICE	50	500	5000	
106	OFFICE	50	500	5000	
107	OFFICE	50	500	5000	
108	OFFICE	50	500	5000	
109	OFFICE	50	500	5000	
110	OFFICE	50	500	5000	
111	OFFICE	50	500	5000	
112	OFFICE	50	500	5000	
113	OFFICE	50	500	5000	
114	OFFICE	50	500	5000	
115	OFFICE	50	500	5000	
116	OFFICE	50	500	5000	
117	OFFICE	50	500	5000	
118	OFFICE	50	500	5000	
119	OFFICE	50	500	5000	
120	OFFICE	50	500	5000	

Table Data Collection, Inc.
 421 Linn Ave. Dr. in Phoenix, AZ 85004
 Phone: 602-998-2182
 FAX: 602-998-2183
 E-Mail: info@table.com

Room No.	Room Name	Area (sq. ft.)	Volume (cu. ft.)	Weight (lb.)	Notes
101	STORAGE ROOM	100	1000	10000	
102	OFFICE	50	500	5000	
103	OFFICE	50	500	5000	
104	OFFICE	50	500	5000	
105	OFFICE	50	500	5000	
106	OFFICE	50	500	5000	
107	OFFICE	50	500	5000	
108	OFFICE	50	500	5000	
109	OFFICE	50	500	5000	
110	OFFICE	50	500	5000	
111	OFFICE	50	500	5000	
112	OFFICE	50	500	5000	
113	OFFICE	50	500	5000	
114	OFFICE	50	500	5000	
115	OFFICE	50	500	5000	
116	OFFICE	50	500	5000	
117	OFFICE	50	500	5000	
118	OFFICE	50	500	5000	
119	OFFICE	50	500	5000	
120	OFFICE	50	500	5000	

Table Data Collection, Inc.
 421 Linn Ave. Dr. in Phoenix, AZ 85004
 Phone: 602-998-2182
 FAX: 602-998-2183
 E-Mail: info@table.com

05568

JOB _____

TRAFFIC DATA COLLECTION, INC.
400 LINDEN DRIVE, LAWRENCE, GA 30046
TEL: 770-962-8800 FAX: 770-962-8801

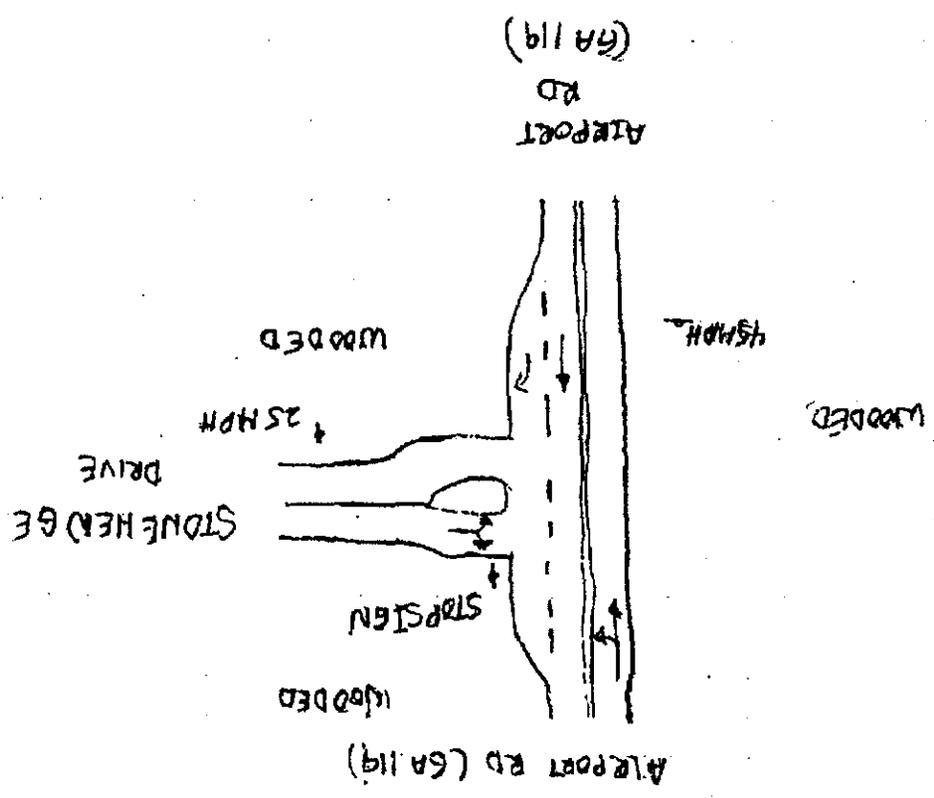
STONHENGE DRIVE AIRPORT RD



INTERSECTION CONFIGURATION

PL. NO. 06

Sheet Title



NAME: RE
 DATE: 5-18-05
 COUNTY NO: 24-0975

TRAFFIC DATA COLLECTION INC.
488 LINDEN DRIVE, LAWRENCEVILLE, GA 30046
TEL: 770-962-2800 FAX: 770-962-2801

PROJECT NO: 05568

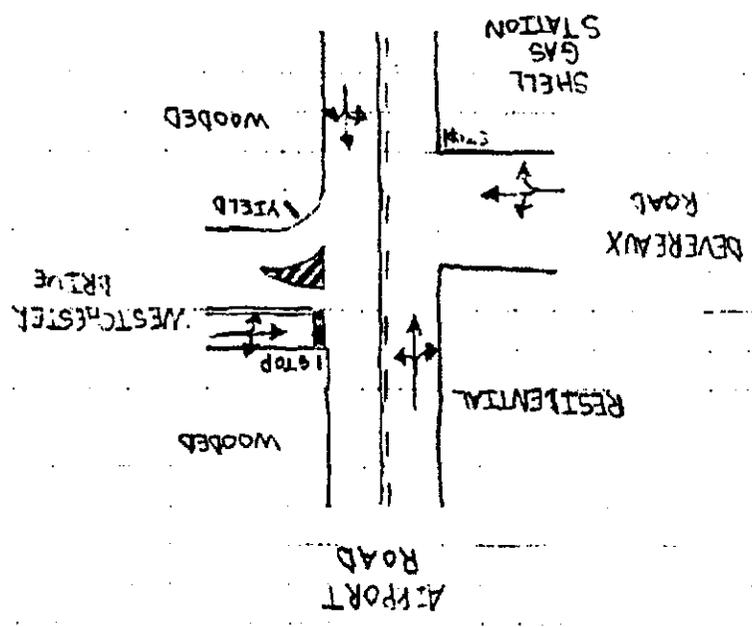
STREET NAME: BEVERAUX RD / WESTCHESTER DR



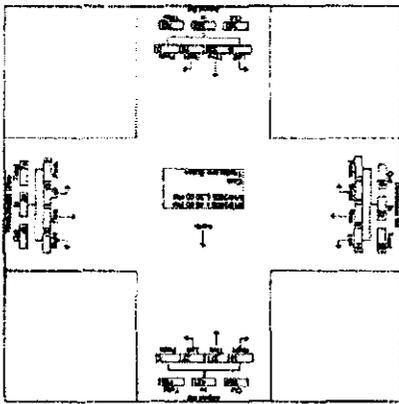
INTERSECTION CONFIGURATION

FIG. NO: 05

SHEET TITLE

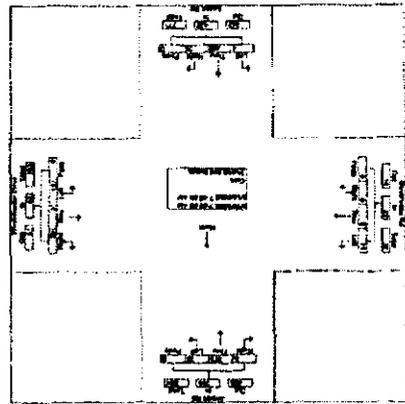


DATE: 5-18-05
DRAWN BY: J.C.
COUNT NO: D12373



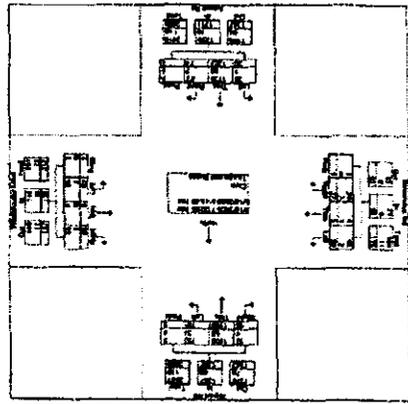
Room No.	Area	Area (sq ft)	Volume (cu ft)	Weight (lb)	Weight (kg)
101	Room 101	100	1000	1000	454
102	Room 102	100	1000	1000	454
103	Room 103	100	1000	1000	454
104	Room 104	100	1000	1000	454
105	Central Area	100	1000	1000	454

Traffic Data Collection, Inc.
 40 Lane Dr. Dr. Phillips, SC 29684
 Phone: 252-233-7100
 Fax: 252-233-7101
 Email: info@trafficdata.com
 Web: www.trafficdata.com



Room No.	Area	Area (sq ft)	Volume (cu ft)	Weight (lb)	Weight (kg)
101	Room 101	100	1000	1000	454
102	Room 102	100	1000	1000	454
103	Room 103	100	1000	1000	454
104	Room 104	100	1000	1000	454
105	Central Area	100	1000	1000	454

Traffic Data Collection, Inc.
 40 Lane Dr. Dr. Phillips, SC 29684
 Phone: 252-233-7100
 Fax: 252-233-7101
 Email: info@trafficdata.com
 Web: www.trafficdata.com



Room No.	Area	Area (sq ft)	Volume (cu ft)	Weight (lb)	Weight (kg)
101	Room 101	100	1000	1000	454
102	Room 102	100	1000	1000	454
103	Room 103	100	1000	1000	454
104	Room 104	100	1000	1000	454
105	Central Area	100	1000	1000	454

Traffic Data Collection, Inc.
 40 Lane Dr. Dr. Phillips, SC 29684
 Phone: 252-233-7100
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 Web: www.trafficdata.com

Room No.	Area	Area (sq ft)	Volume (cu ft)	Weight (lb)	Weight (kg)
101	Room 101	100	1000	1000	454
102	Room 102	100	1000	1000	454
103	Room 103	100	1000	1000	454
104	Room 104	100	1000	1000	454
105	Central Area	100	1000	1000	454

Traffic Data Collection, Inc.
 40 Lane Dr. Dr. Phillips, SC 29684
 Phone: 252-233-7100
 Fax: 252-233-7101
 Email: info@trafficdata.com
 Web: www.trafficdata.com

TRAFFIC DATA COLLECTION INC
434 LEE OAK DRIVE, FARMERSVILLE, NC 28644
PH 810 282-5001 FAX 810 282-4921

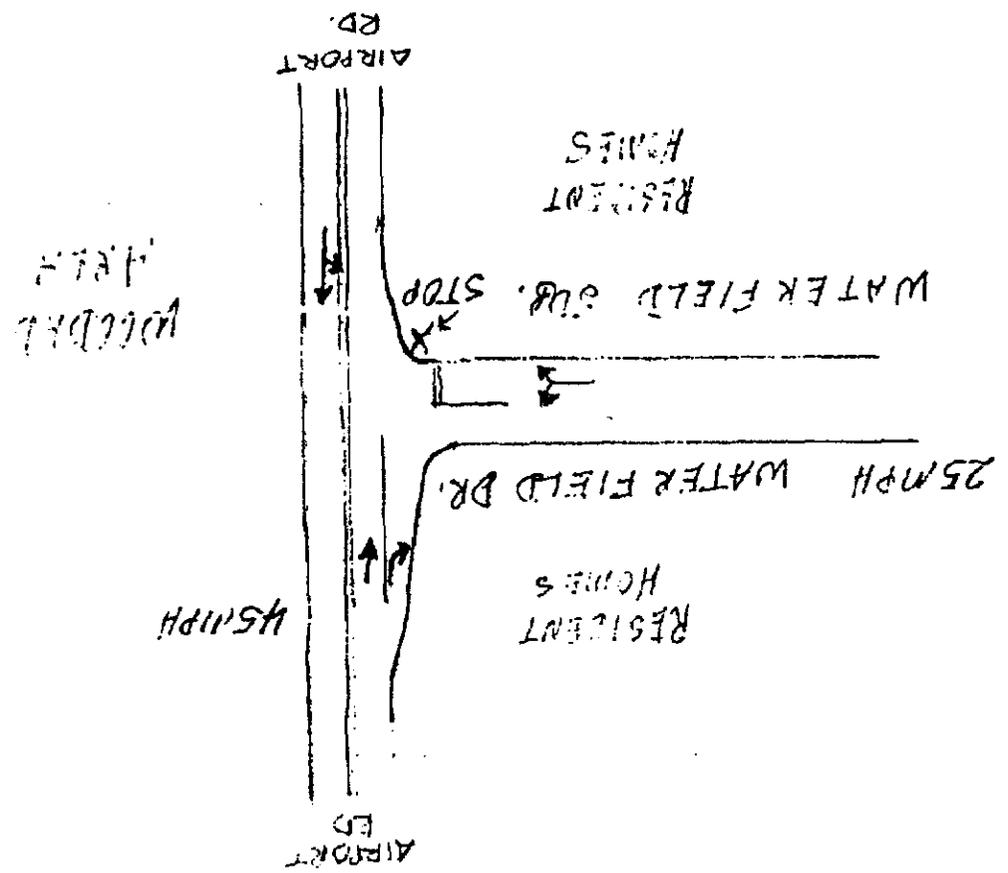


INTERSECTION CONFIGURATION

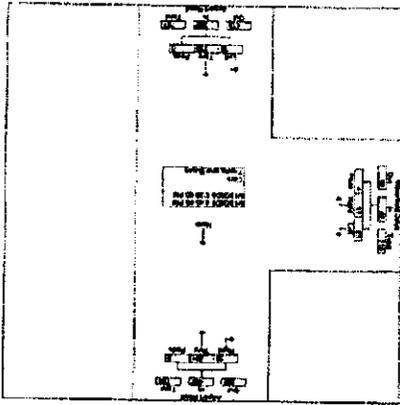
PROJECT NUMBER: AIRPORT RD. (GA 119) -
WATERFIELD DR.
JOB: 05568

DATE: 05/18/05

SHEET TITLE

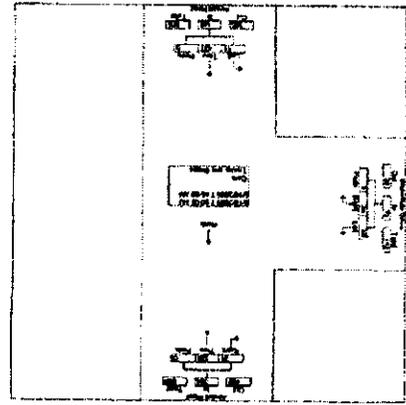


NAME: J V
DATE: 05-18-05
COURSE NO: D4-2511



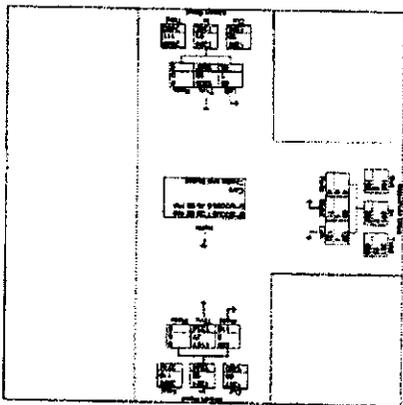
Room	Area	Volume	Weight	Value	Notes
Room 1	100	1000	1000	1000	
Room 2	200	2000	2000	2000	
Room 3	300	3000	3000	3000	
Room 4	400	4000	4000	4000	
Room 5	500	5000	5000	5000	
Room 6	600	6000	6000	6000	
Room 7	700	7000	7000	7000	
Room 8	800	8000	8000	8000	
Room 9	900	9000	9000	9000	
Room 10	1000	10000	10000	10000	

Tropic Data Collection, Inc.
 454 The Oaks Dr. #200, Phoenix, AZ 85024
 Phone: 313-252-1100
 Fax: 313-252-1101
 Email: info@tropics.com
 Website: www.tropics.com



Room	Area	Volume	Weight	Value	Notes
Room 1	100	1000	1000	1000	
Room 2	200	2000	2000	2000	
Room 3	300	3000	3000	3000	
Room 4	400	4000	4000	4000	
Room 5	500	5000	5000	5000	
Room 6	600	6000	6000	6000	
Room 7	700	7000	7000	7000	
Room 8	800	8000	8000	8000	
Room 9	900	9000	9000	9000	
Room 10	1000	10000	10000	10000	

Tropic Data Collection, Inc.
 454 The Oaks Dr. #200, Phoenix, AZ 85024
 Phone: 313-252-1100
 Fax: 313-252-1101
 Email: info@tropics.com
 Website: www.tropics.com



Tropic Data Collection, Inc.
 454 The Oaks Dr. #200, Phoenix, AZ 85024
 Phone: 313-252-1100
 Fax: 313-252-1101
 Email: info@tropics.com
 Website: www.tropics.com

Room	Area	Volume	Weight	Value	Notes
Room 1	100	1000	1000	1000	
Room 2	200	2000	2000	2000	
Room 3	300	3000	3000	3000	
Room 4	400	4000	4000	4000	
Room 5	500	5000	5000	5000	
Room 6	600	6000	6000	6000	
Room 7	700	7000	7000	7000	
Room 8	800	8000	8000	8000	
Room 9	900	9000	9000	9000	
Room 10	1000	10000	10000	10000	

Tropic Data Collection, Inc.
 454 The Oaks Dr. #200, Phoenix, AZ 85024
 Phone: 313-252-1100
 Fax: 313-252-1101
 Email: info@tropics.com
 Website: www.tropics.com

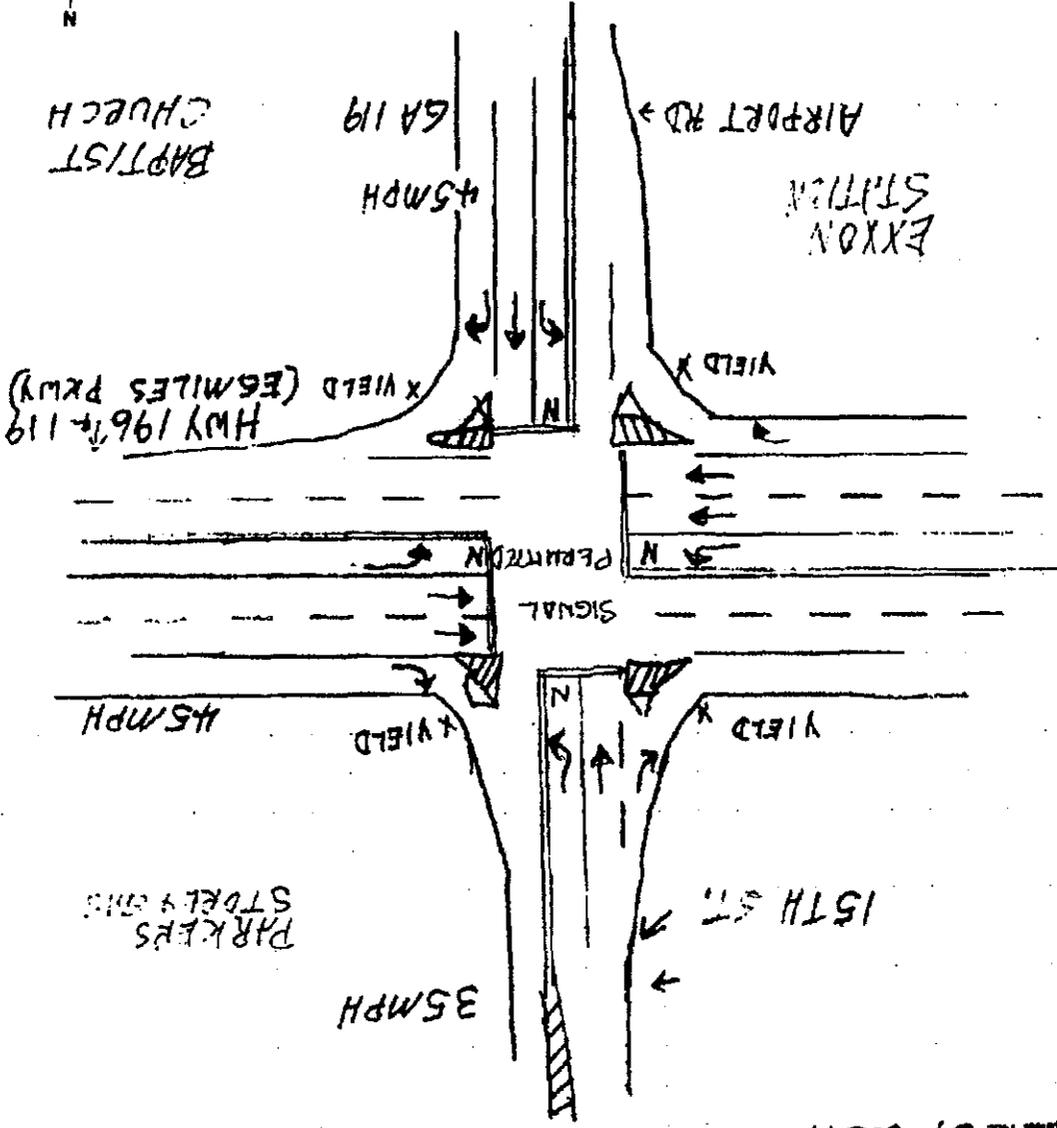
4 15TH ST
 EGAMILLES PKWY (196+119) Jct 05568

TRAFFIC DATA COLLECTION INC
 481 LAW DR. CHICAGO, ILL. 60607
 TEL 312 231-2300 FAX 312 231-2301

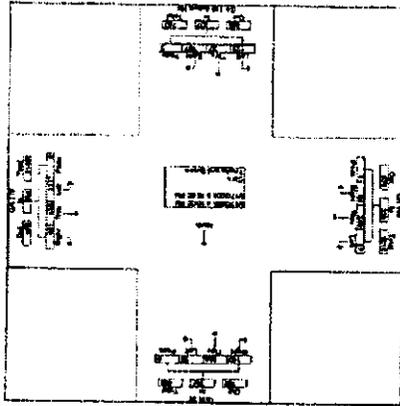


INTERSECTION CONFIGURATION

IN No. 03

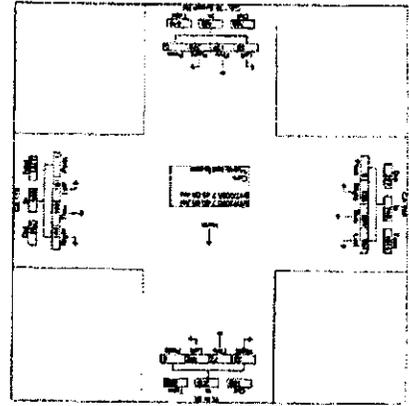


DATE 5-17-05
 COURSE No. D4-2511
 NAME JV



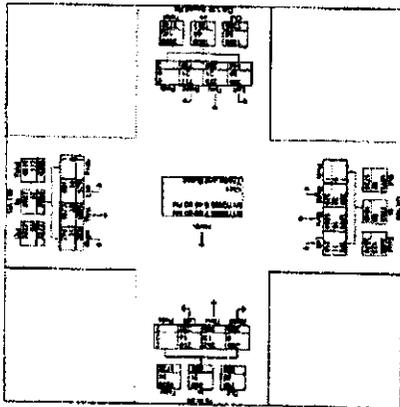
Room No.	Room Name	Area (sq. ft.)	Volume (cu. ft.)	Weight (lb.)	Notes
101	Office	100	1000	1000	
102	Office	100	1000	1000	
103	Office	100	1000	1000	
104	Office	100	1000	1000	
105	Office	100	1000	1000	
106	Office	100	1000	1000	
107	Office	100	1000	1000	
108	Office	100	1000	1000	
109	Office	100	1000	1000	
110	Office	100	1000	1000	

Trade Data Corporation, Inc.
 1215 Lee Ave. Dr. W. Phoenix, AZ 85041
 Phone: 602-998-1111
 Fax: 602-998-1112
 E-mail: info@tdc.com



Room No.	Room Name	Area (sq. ft.)	Volume (cu. ft.)	Weight (lb.)	Notes
201	Office	100	1000	1000	
202	Office	100	1000	1000	
203	Office	100	1000	1000	
204	Office	100	1000	1000	
205	Office	100	1000	1000	
206	Office	100	1000	1000	
207	Office	100	1000	1000	
208	Office	100	1000	1000	
209	Office	100	1000	1000	
210	Office	100	1000	1000	

Trade Data Corporation, Inc.
 1215 Lee Ave. Dr. W. Phoenix, AZ 85041
 Phone: 602-998-1111
 Fax: 602-998-1112
 E-mail: info@tdc.com



Room No.	Room Name	Area (sq. ft.)	Volume (cu. ft.)	Weight (lb.)	Notes
301	Office	100	1000	1000	
302	Office	100	1000	1000	
303	Office	100	1000	1000	
304	Office	100	1000	1000	
305	Office	100	1000	1000	
306	Office	100	1000	1000	
307	Office	100	1000	1000	
308	Office	100	1000	1000	
309	Office	100	1000	1000	
310	Office	100	1000	1000	

Trade Data Corporation, Inc.
 1215 Lee Ave. Dr. W. Phoenix, AZ 85041
 Phone: 602-998-1111
 Fax: 602-998-1112
 E-mail: info@tdc.com

Room No.	Room Name	Area (sq. ft.)	Volume (cu. ft.)	Weight (lb.)	Notes
401	Office	100	1000	1000	
402	Office	100	1000	1000	
403	Office	100	1000	1000	
404	Office	100	1000	1000	
405	Office	100	1000	1000	
406	Office	100	1000	1000	
407	Office	100	1000	1000	
408	Office	100	1000	1000	
409	Office	100	1000	1000	
410	Office	100	1000	1000	

Trade Data Corporation, Inc.
 1215 Lee Ave. Dr. W. Phoenix, AZ 85041
 Phone: 602-998-1111
 Fax: 602-998-1112
 E-mail: info@tdc.com

TRAFFIC DATA COLLECTION, INC.
485 LINDEN DRIVE, SUITE 100, WILMINGTON, DE 19804
TEL: 302-439-2200 FAX: 302-439-2201

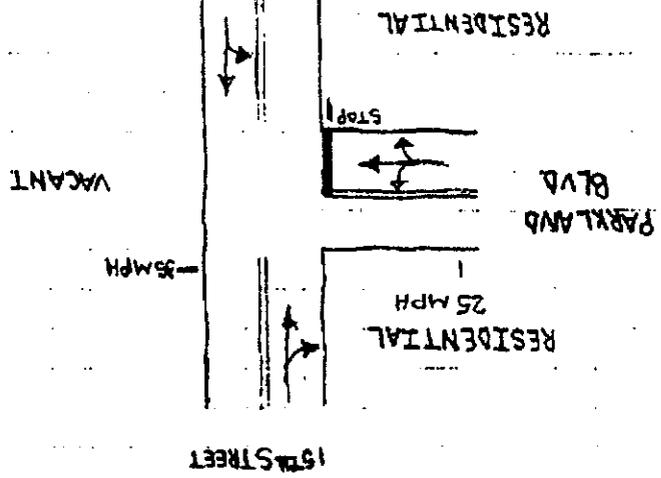
Job # 05568
ATLANTA, GA

Street Name: 15th Street @ Parkland Blvd



INTERSECTION CONFIGURATION

Sheet Title
Job No: 02



Name: TC
Date: 5-19-05
Course No: 042373

2005 Capacity Analysis

2030 Capacity Analysis

2000 All 25 Parcel & 15th Street

Line Contour	Area	Volume	Value	Grade	Notes
1	1.2	1.2	1.2	0%	
2	1.2	1.2	1.2	0%	
3	1.2	1.2	1.2	0%	
4	1.2	1.2	1.2	0%	
5	1.2	1.2	1.2	0%	
6	1.2	1.2	1.2	0%	
7	1.2	1.2	1.2	0%	
8	1.2	1.2	1.2	0%	
9	1.2	1.2	1.2	0%	
10	1.2	1.2	1.2	0%	
11	1.2	1.2	1.2	0%	
12	1.2	1.2	1.2	0%	
13	1.2	1.2	1.2	0%	
14	1.2	1.2	1.2	0%	
15	1.2	1.2	1.2	0%	
16	1.2	1.2	1.2	0%	
17	1.2	1.2	1.2	0%	
18	1.2	1.2	1.2	0%	
19	1.2	1.2	1.2	0%	
20	1.2	1.2	1.2	0%	
21	1.2	1.2	1.2	0%	
22	1.2	1.2	1.2	0%	
23	1.2	1.2	1.2	0%	
24	1.2	1.2	1.2	0%	
25	1.2	1.2	1.2	0%	
26	1.2	1.2	1.2	0%	
27	1.2	1.2	1.2	0%	
28	1.2	1.2	1.2	0%	
29	1.2	1.2	1.2	0%	
30	1.2	1.2	1.2	0%	
31	1.2	1.2	1.2	0%	
32	1.2	1.2	1.2	0%	
33	1.2	1.2	1.2	0%	
34	1.2	1.2	1.2	0%	
35	1.2	1.2	1.2	0%	
36	1.2	1.2	1.2	0%	
37	1.2	1.2	1.2	0%	
38	1.2	1.2	1.2	0%	
39	1.2	1.2	1.2	0%	
40	1.2	1.2	1.2	0%	
41	1.2	1.2	1.2	0%	
42	1.2	1.2	1.2	0%	
43	1.2	1.2	1.2	0%	
44	1.2	1.2	1.2	0%	
45	1.2	1.2	1.2	0%	
46	1.2	1.2	1.2	0%	
47	1.2	1.2	1.2	0%	
48	1.2	1.2	1.2	0%	
49	1.2	1.2	1.2	0%	
50	1.2	1.2	1.2	0%	
51	1.2	1.2	1.2	0%	
52	1.2	1.2	1.2	0%	
53	1.2	1.2	1.2	0%	
54	1.2	1.2	1.2	0%	
55	1.2	1.2	1.2	0%	
56	1.2	1.2	1.2	0%	
57	1.2	1.2	1.2	0%	
58	1.2	1.2	1.2	0%	
59	1.2	1.2	1.2	0%	
60	1.2	1.2	1.2	0%	
61	1.2	1.2	1.2	0%	
62	1.2	1.2	1.2	0%	
63	1.2	1.2	1.2	0%	
64	1.2	1.2	1.2	0%	
65	1.2	1.2	1.2	0%	
66	1.2	1.2	1.2	0%	
67	1.2	1.2	1.2	0%	
68	1.2	1.2	1.2	0%	
69	1.2	1.2	1.2	0%	
70	1.2	1.2	1.2	0%	
71	1.2	1.2	1.2	0%	
72	1.2	1.2	1.2	0%	
73	1.2	1.2	1.2	0%	
74	1.2	1.2	1.2	0%	
75	1.2	1.2	1.2	0%	
76	1.2	1.2	1.2	0%	
77	1.2	1.2	1.2	0%	
78	1.2	1.2	1.2	0%	
79	1.2	1.2	1.2	0%	
80	1.2	1.2	1.2	0%	
81	1.2	1.2	1.2	0%	
82	1.2	1.2	1.2	0%	
83	1.2	1.2	1.2	0%	
84	1.2	1.2	1.2	0%	
85	1.2	1.2	1.2	0%	
86	1.2	1.2	1.2	0%	
87	1.2	1.2	1.2	0%	
88	1.2	1.2	1.2	0%	
89	1.2	1.2	1.2	0%	
90	1.2	1.2	1.2	0%	
91	1.2	1.2	1.2	0%	
92	1.2	1.2	1.2	0%	
93	1.2	1.2	1.2	0%	
94	1.2	1.2	1.2	0%	
95	1.2	1.2	1.2	0%	
96	1.2	1.2	1.2	0%	
97	1.2	1.2	1.2	0%	
98	1.2	1.2	1.2	0%	
99	1.2	1.2	1.2	0%	
100	1.2	1.2	1.2	0%	

2000 All 25 Parcel & 15th Street

Line Contour	Area	Volume	Value	Grade	Notes
1	1.1	1.1	1.1	0%	
2	1.1	1.1	1.1	0%	
3	1.1	1.1	1.1	0%	
4	1.1	1.1	1.1	0%	
5	1.1	1.1	1.1	0%	
6	1.1	1.1	1.1	0%	
7	1.1	1.1	1.1	0%	
8	1.1	1.1	1.1	0%	
9	1.1	1.1	1.1	0%	
10	1.1	1.1	1.1	0%	
11	1.1	1.1	1.1	0%	
12	1.1	1.1	1.1	0%	
13	1.1	1.1	1.1	0%	
14	1.1	1.1	1.1	0%	
15	1.1	1.1	1.1	0%	
16	1.1	1.1	1.1	0%	
17	1.1	1.1	1.1	0%	
18	1.1	1.1	1.1	0%	
19	1.1	1.1	1.1	0%	
20	1.1	1.1	1.1	0%	
21	1.1	1.1	1.1	0%	
22	1.1	1.1	1.1	0%	
23	1.1	1.1	1.1	0%	
24	1.1	1.1	1.1	0%	
25	1.1	1.1	1.1	0%	
26	1.1	1.1	1.1	0%	
27	1.1	1.1	1.1	0%	
28	1.1	1.1	1.1	0%	
29	1.1	1.1	1.1	0%	
30	1.1	1.1	1.1	0%	
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33	1.1	1.1	1.1	0%	
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73	1.1	1.1	1.1	0%	
74	1.1	1.1	1.1	0%	
75	1.1	1.1	1.1	0%	
76	1.1	1.1	1.1	0%	
77	1.1	1.1	1.1	0%	
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93	1.1	1.1	1.1	0%	
94	1.1	1.1	1.1	0%	
95	1.1	1.1	1.1	0%	
96	1.1	1.1	1.1	0%	
97	1.1	1.1	1.1	0%	
98	1.1	1.1	1.1	0%	
99	1.1	1.1	1.1	0%	
100	1.1	1.1	1.1	0%	

2000 All 15 Parcel & 8th 119

Line Contour	Area	Volume	Value	Grade	Notes
1	27.2	27.2	27.2	0%	
2	27.2	27.2	27.2	0%	
3	27.2	27.2	27.2	0%	
4	27.2	27.2	27.2	0%	
5	27.2	27.2	27.2	0%	
6	27.2	27.2	27.2	0%	
7	27.2	27.2	27.2	0%	
8	27.2	27.2	27.2	0%	
9	27.2	27.2	27.2	0%	
10	27.2	27.2	27.2	0%	
11	27.2	27.2	27.2	0%	
12	27.2	27.2	27.2	0%	
13	27.2	27.2	27.2	0%	
14	27.2	27.2	27.2	0%	
15	27.2	27.2	27.2	0%	
16	27.2	27.2	27.2	0%	
17	27.2	27.2	27.2	0%	
18	27.2	27.2	27.2	0%	
19	27.2	27.2	27.2	0%	
20					

Liberty County
State Route 119 widening
Meeting Notes

Meeting Time: January 28, 2005 9AM -10:30AM

Meeting Place: Liberty County Courthouse

Recorded By: Scott Burns, Thomas & Hutton Engineering Co.
Jeff Ingham, Thomas & Hutton Engineering Co.

Attendees: Teresa Scott, GDOT
Dennis Odom, GDOT
Lamar Tillman, Liberty Co.
Joey Brown, Liberty Co.
Mark Pickering, Thomas & Hutton Engineering Co.
Doyle Kelley, Thomas & Hutton Engineering Co.
Jeff Ingham, Thomas & Hutton Engineering Co.
Scott Burns, Thomas & Hutton Engineering Co.

T&H Project: Liberty County SR 119 Widening & Reconstruction

Project Description

- 6.5 mile widening of SR 119 from US 84 to 15th Street
- Project is within city limits of Waltourville and Hinesville.
- Project to be designed by GDOT standards.
- An additional project within Fort Stewart has been discussed which would extend 15th Street and bypass the contonement area. Plans for this area are very conceptual and funding has yet to be identified.

Funding

- Federal funding is allotted for SR 119 section only.
- 15th Street section currently to be built using County funding; however, there is a possibility that the entire project will be built with Federal funding if 15th Street meets the requirement and funds are requested to GDOT.
- Classification of 15th Street in question, must not be classified as a local road to receive Federal funding.

Surveying & Mapping, Public Notification

- Public to receive written notification of land surveying in their area.

Environmental

- Liberty County can provide the Environmental Assessment that was completed for the 15th Street construction. This study did not identify any endangered species concerns along the route.

Concept Process/Coordination

- GDOT request an initial concept meeting to be scheduled.
- Ft. Stewart will be an integral part of the NEPA process and should be included in all initial meetings. Traffic and access patterns on Ft Stewart will have a big impact on future volumes on 15th Street and GA 119. Federal lands require inclusion of the Corps of Engineers "real estate" division, which is separate from the permitting division.
- Sonny Timmerman is MPO contact and should be contacted as soon as possible for concerning possible conflicts with Fort Stewart, traffic demand modeling information and other planning aspects.
- Brian Mixon, head of airfield unit, should be contacted to schedule aerial shots for exhibit.
- Coordinate with Moreland Altobelli, who is doing design work on Hinesville Bypass, for tie-ins.
- Contact Jeff Haliburton for size and land use at Independence Park.
- Sonny Timmerman, Trent Long and members of Fort Stewart should be present at all meetings, if possible.

Schedule

- Original schedule revised to include Initial Concept Meeting.
- Date of Public Information Meeting (currently scheduled for May 05) may be revised as GDOT request that Environmental should be at 60% by this meeting.
- As of time of Public Information Meeting, alignment should be close to finalized with several alternatives should be available.

Additional Topics

- GIS owned by City of Hinesville, Liberty County will access as needed.
- Trent Long, county engineer, to be contacted for history if possible.
- Currently 6,000 soldiers were sent to Fort Stewart before being sent to Iraq. Within 18 months, there is a possibility of 10,000 soldiers being assigned to Fort Stewart. These soldiers will be allowed to bring their families.
- A public transportation plan for busing is possible.
- Noise impact on subdivision along SR 119 in question, possible addition of sound wall may be required.
- Independence Park to contain approximately 1,000 units when complete.

Contacts

<u>Name</u>	<u>Company</u>	<u>Phone</u>
1. Teresa Scott	GA DOT	(912) 427-5788
2. Dennis Odom	GA DOT	(912) 427-5716
3. Lamar Tillman	Liberty County	(912) 368-5897
4. Joey Brown	Liberty County	(912) 876-2164
5. Mark Pickering	Thomas & Hutton	(912) 234-5300
6. Doyle Kelley	Thomas & Hutton	(912) 721-4160
7. Jeff Ingham	Thomas & Hutton	(843) 849-0200
8. Scott Burns	Thomas & Hutton	(912) 721-4076
9. Brian Mixon	Fort Stewart	(912) 767-5622
10. Sonny Timmerman	Fort Stewart	(912) 408-2030

Meeting Minutes
Initial Concept Meeting

Date: February 14, 2006
Date of Meeting: February 14, 2006
Project: State Route 119 Widening and Reconstruction
Purpose of Meeting: Initial Concept Meeting
Meeting Location: Liberty County Courthouse

Attendees:

NAME	ORGANIZATION	PHONE NO.
Billy Edwards	City of Hinesville	912-876-3564
Henry Frasier, Sr.	City of Walthourville	912-368-7501
George Shenk	GDOT	912-427-5859
Donnie Boyd	GDOT	912-370-2588
Teresa Scott	GDOT	912-427-5788
Keith Stewart	GDOT	912-427-5864
Dennis Odum	GDOT	912-427-5716
Sheree Smart	GDOT	912-427-5756
Sonny Timmerman	LCPC	912-408-2030
Sally Dowlen	LCPC	912-408-2030
Brandon Wescott	LCPC	912-408-2030
Joey Brown	Liberty County	912-876-2164
Mark Pickering	Thomas & Hutton Engineering Co.	912-234-5300
Jeff Ingham	Thomas & Hutton Engineering Co.	843-725-5266
Scott Burns	Thomas & Hutton Engineering Co.	912-721-4076

Meeting Minutes
Initial Concept Meeting

SUMMARY OF ISSUES:

RIGHT OF WAY ISSUES:

- 200 feet proposed right of way shown throughout project. Right of way required will lessen when project limits are updated.

ENVIRONMENTAL ISSUES:

- Environmental studies will take place on both State Route 119 and 15TH Street segments.
- Cemetery location and limits should be checked so that it is not within right of way.
- Inert landfill needs to be checked that it is not within right of way. If so, area will need to be tested.

TYPICAL SECTION AND ALIGNMENT ISSUES:

- Added Type C median crossover for access by both the school and church along SR 119.
- Update sidewalk on east side from 5' to 6' width.
- Eliminate right in-right out driveway at Highway Patrol office. Replace driveways at Savannah Technical College campus and Highway Patrol office with one drive that would allow access to both. Side roads in that area to be realigned for better access.
- Coordinate with Highway Patrol office (Sgt. Keith Collins) on driveway access for Highway Patrol office.
- Medians should be grassed instead of concrete.
- Add median break at fire station under water tower access to fire station and nearby apartments.
- Business near US 84 needs access for 18 wheelers.
- Add jug handles where applicable to allow adequate space for U-turns.
- Contact Board of Education (Dr. Steve Wilmoth) for tie-ins/access at schools.
- Coordinate with Independence Park design on location of all possible required median breaks.

UTILITY ISSUES:

- Utility companies to relocate utilities.
- Check that right of way does not impact pump station near Lexington subdivision.

Meeting Minutes
Initial Concept Meeting

- **Locate force main on east side of road near Pine Ridge and Lexington subdivisions.**

OTHER ISSUES:

- **County to request that 15TH Street be added to SR 119 as a federally funded segment.**
- **Look into the drainage at the Southside of the jail and detention pond on proposed school property. These issues will be addressed with other drainage in preliminary design.**

Meeting Minutes
Final Concept Meeting

Date: June 16, 2006
Date of Meeting: June 16, 2006
Project: State Route 119 Widening and Reconstruction
Purpose of Meeting: Final Concept Meeting
Meeting Location: Liberty County Courthouse

Attendees:

NAME	ORGANIZATION	PHONE NO.
Ron Nelson	GDOT	
Cynthia Phillips	GDOT	912-427-5767
Brad Saxon	GDOT	
Teresa Scott	GDOT	912-427-5788
Keith Stewart	GDOT	912-427-5864
Sonny Timmerman	LCPC	912-408-2030
Joey Brown	Liberty County	912-876-2164
Doyle Kelley	Thomas & Hutton Engineering Co.	912-234-5300
Scott Burns	Thomas & Hutton Engineering Co.	912-721-4076

Meeting Minutes
Final Concept Meeting

SUMMARY OF ISSUES:

RIGHT OF WAY ISSUES:

- Adjust right-of-way where possible to prevent possible displacements.

TYPICAL SECTION AND ALIGNMENT ISSUES:

- Should Type B median opening be used for this design? Type B requires a minimum median width of 32', median width of project 24'.
- Realign proposed roadway to keep as much of the existing roadway as possible between US 84 and SR 196.
- Add additional length to the turn lanes at school entrances.

OTHER ISSUES:

- Include right-of-way cost estimate with final concept.
- Traffic signal warrant analysis for additional signals on the job requested.
- Update conceptual cost estimate based on current mean item summary.

State Route 119 Widening and Reconstruction
STP-0004-00 (917)

Below is a break down of the attached Right of Way cost estimate for each portion of the project

State Route 119 Widening (US 84 to SR 196)

Net Cost:	\$2,302,306
Plus Scheduling Contingency (55%):	\$1,266,268
Plus Admin./Court Cost (60% of 2 lines above):	\$2,141,145
Plus Inflation Factor (40% of 3 lines above):	\$2,283,888
TOTAL COST:	\$ 8,000,000 (R)

15th Street Widening

Net Cost:	\$2,194,747
Plus Scheduling Contingency (55%):	\$1,207,111
Plus Admin./Court Cost (60% of 2 lines above):	\$2,041,115
Plus Inflation Factor (40% of 3 lines above):	\$2,177,189
TOTAL COST:	\$ 7,600,000 (R)

Note: The attached cost estimate spreadsheets are broken up for each portion of the project. Page 1 of the SR119 Parcel Listing spreadsheet shows all properties along the project between US 84 and SR 119. Page 2 shows parcels beginning north of SR 196 to the Fort Stewart boundary.

**STP-0004-00 (917)
LIBERTY COUNTY
P.L. #: 0004917**

CONCEPTUAL STAGE STUDY

Liberty County will assist families or individuals in finding and relocating to decent, safe and sanitary housing which is adequate to meet their needs and within their financial means. Assistance will also be given to businesses, farm operators, and nonprofit organizations in relocating to other quarters. This assistance is provided to families, individuals, businesses, farms and nonprofit organizations in the form of moving expenses in order for them to relocate. In addition, owner or tenant occupants of residential housing being displaced will be provided financial assistance for increased costs they may encounter in buying or renting. Owner occupants may also be provided financial assistance for certain other incidental expenses such as closing costs and increased interest payments required in their purchase of a replacement home.

Project STP-0004-00 (917), Liberty County may displace two (2) owner occupied single family residences and three (3) tenant occupied single family residences. Information obtained from Liberty County Tax Assessor data was used in addition to personal field inspection by Right of Way personnel. U.S. Census Bureau information is attached to give a demographic overview of the area. Housing inventory was surveyed using market information from real estate agents, newspapers and the local housing Multiple Listing Service (MLS). During this preliminary study, no contact was made with any of the displacees. This neighborhood is generally rural in nature made up of mostly residential properties. In our opinion there is an adequate supply of replacement housing available as shown in the attached Housing Inventory study. We foresee no adverse affects due to the proposed project on neighborhoods, housing or community services in the area.

DISPLACEE INVENTORY*

PROJECT: STP-0004-00 (917)

LIBERTY COUNTY

DATE: 09/06 PAGE 1 OF 1

PA R NO.	ADDRESS	O- T	TYPE <u>DISPLACEE</u> TTL SQ. FT	VALUE/RENT <u>AMT</u> TTL/PTL TAKE	TYPE OF NEIGH	AGE	TYPE OF BUS.	NO. OF EMPLOYEE	EST. FINAN STAND
1	101 Kentucky Derby	T	<u>Residential</u> 1,174	<u>\$775.00/month</u> Total Take	Residential	9 yrs			
2	1285 Eddie Lane	T	<u>Residential</u> 1,400	<u>\$800.00/month</u> Total Take	Residential	9 yrs			
3	1284 Eddie Lane	O	<u>Residential</u> 1,582	<u>\$131,401.00</u> Total Take	Residential	9 yrs			
4	1219 Pineridge Way	T	<u>Residential</u> 1,400	<u>\$800.00/month</u> Total Take	Residential	8 yrs			
5	2559 Parkland Blvd.	O	<u>Residential</u> 1,285	<u>\$106,732.00</u> Total Take	Residential	8 yrs			

*Table Contains Estimated Data

HOUSING INVENTORY*

CT: STP-0004-00 (917), Liberty County DATE: 09/06

PAGE 1 of 3

No.	Address	SQ. FT. (HTD)	AGE IMP	NUM. RMS BDRMS	DSS/ PROJ. AREA	TYPE NEIG	ASKING PRICE/ STATUS	Listing Agency/Agent
1	110 Kentucky Derby Hinesville, Georgia	1473 -1971	6+-	<u>10</u> 3	<u>Yes</u> Yes	Res.	\$146,900.00	Century 21 (912) 312-1200
2	1915 Salisbury Way Hinesville, Georgia	1724 -2337	11+-	<u>10</u> 3	<u>Yes</u> Yes	Res.	\$170,900.00	Caldwell Banker (912) 572-5315
3	1920 Salisbury Way Hinesville, Georgia	1506 -1989	12+-	<u>8</u> 3	<u>Yes</u> Yes	Res.	\$161,500.00	Caldwell Banker (912) 877-3777
4	1905 Stonehenge Drive Hinesville, Georgia	1866 -2307	11+-	<u>10</u> 3	<u>Yes</u> Yes	Res.	\$161,900.00	Century 21 (912) 877-9235
5	1902 Bluestone Loop Hinesville, Georgia	1865 -2180	11+-	<u>10</u> 3	<u>Yes</u> Yes	Res.	\$159,900.00	Century 21 (912) 369-4027
6	1921 Wessex Court Hinesville, Georgia	1722 -2143	11+-	<u>10</u> 3	<u>Yes</u> Yes	Res.	\$167,500.00	Stewart Realty (912) 368-7680
7	920 Poppleton Drive Hinesville, Georgia	1092 -1323	9+-	<u>6</u> 3	<u>Yes</u> Yes	Res.	\$102,900.00	Caldwell Banker (912) 977-4626
8	930 Granger Drive Hinesville, Georgia	1939	12+-	<u>9</u> 3	<u>Yes</u> Yes	Res.	\$130,000.00	Century 21 (912) 369-4027
9	916 Wrenwood Lane Hinesville, Georgia	1292	12+-	<u>9</u> 3	<u>Yes</u> Yes	Res.	\$107,000.00	Century 21 (912) 977-5221
10	1070 Ricade Drive Hinesville, Georgia	1296	37+-	<u>7</u> 3	<u>Yes</u> Yes	Res.	\$89,900.00	Stewart Realty (912) 368-7680

HOUSING INVENTORY*

CT: STP-0004-00 (917), Liberty County DATE: 09/06

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11	1220 Jubail Drive Hinesville, Georgia	1219 -1459	13+-	<u>7</u> 3	<u>Yes</u> Yes	Res.	\$89,900.00	Elaine Boggs Realty (912) 492-0801
12	1057 Desert Shield St. Hinesville, Georgia	1580	16+-	<u>6</u> 3	<u>Yes</u> Yes	Res.	\$112,500.00	Stewart Realty (912) 368-7680
Rnt1	1486 Paul Caswell Blvd. Hinesville, Georgia	1352 -1646	11+-	<u>10</u> 3	<u>Yes</u> Yes	Res.	\$750.00 Avail.	Holtzman Real Estate (912) 876-8886
Rnt2	181 Kyle Lane Hinesville, Georgia	1296	11+-	<u>10</u> 3	<u>Yes</u> Yes	Res.	\$770.00 Avail.	Holtzman Real Estate (912) 876-8886
Rnt3	304 Kevin Road Hinesville, Georgia	1276	10+-	<u>10</u> 3	<u>Yes</u> Yes	Res.	\$800.00 Avail.	Holtzman Real Estate (912) 876-8886
Rnt4	42 Kelly Lane Hinesville, Georgia	1498 -1750	16+-	<u>9</u> 3	<u>Yes</u> Yes	Res.	\$800.00 Avail.	Holtzman Real Estate (912) 876-8886
Rnt5	709 Waterfield Drive Hinesville, Georgia	1308 -1540	11+-	<u>10</u> 3	<u>Yes</u> Yes	Res.	\$775.00 Avail.	Holtzman Real Estate (912) 876-8886
Rnt6	942 Poppleton Drive Hinesville, Georgia	1445	8+-	<u>6</u> 3	<u>Yes</u> Yes	Res.	\$850.00 Avail.	Holtzman Real Estate (912) 876-8886
Rnt7	908 Mandarin Drive Hinesville, Georgia	1512 -1995	19+-	<u>6</u> 3	<u>Yes</u> Yes	Res.	\$900.00 Avail.	Holtzman Real Estate (912) 876-8886
Rnt8	1461 Enterprise Drive Hinesville, Georgia	1400	11+-	<u>10</u> 3	<u>Yes</u> Yes	Res.	\$780.00 Avail.	Holtzman Real Estate (912) 876-8886
Rnt9	1343 Loblolly Drive Hinesville, Georgia	1491	6+-	<u>6</u> 3	<u>Yes</u> Yes	Res.	\$800.00 Avail.	Holtzman Real Estate (912) 876-8886

HOUSING INVENTORY*

CT: STP-0004-00 (917), Liberty County **DATE: 09/06**

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Rnt10	1406 Desert Storm Dr. Hinesville, Georgia	1456	13+-	$\frac{6}{3}$	<u>Yes</u> Yes	Res.	\$900.00 Avail.	Holtzman Real Estate (912) 876-8886
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*Table Contains Estimated Data

U.S. Census Bureau

State & County QuickFacts

Hinesville (city), Georgia

People QuickFacts	Hinesville	Georgia
Population, 2003 estimate	29,396	8,684,715
Population, percent change, April 1, 2000 to July 1, 2003	-3.4%	6.1%
Population, 2000	30,392	8,186,453
Population, percent change, 1990 to 2000	39.6%	26.4%
Persons under 5 years old, percent, 2000	10.6%	7.3%
Persons under 18 years old, percent, 2000	34.2%	26.5%
Persons 65 years old and over, percent, 2000	3.1%	9.6%
Female persons, percent, 2000	50.7%	50.8%
White persons, percent, 2000 (a)	41.5%	65.1%
Black or African American persons, percent, 2000 (a)	46.0%	28.7%
American Indian and Alaska Native persons, percent, 2000 (a)	0.5%	0.3%
Asian persons, percent, 2000 (a)	2.3%	2.1%
Native Hawaiian and Other Pacific Islander, percent, 2000 (a)	0.6%	0.1%
Persons reporting some other race, percent, 2000 (a)	5.0%	2.4%
Persons reporting two or more races, percent, 2000	4.2%	1.4%
Persons of Hispanic or Latino origin, percent, 2000	9.1%	5.3%
Living in same house in 1995 and 2000, pct age 5+, 2000	34.2%	49.2%
Foreign born persons, percent, 2000	6.7%	7.1%
Language other than English spoken at home, pct age 5+, 2000	15.0%	9.9%
High school graduates, percent of persons age 25+, 2000	90.0%	78.6%
Bachelor's degree or higher, pct of persons age 25+, 2000	17.3%	24.3%
Mean travel time to work (minutes), workers age 16+, 2000	21.7	27.7
Housing units, 2000	11,742	3,281,737
Homeownership rate, 2000	49.6%	67.5%
Median value of owner-occupied housing units, 2000	\$77,700	\$111,200
Households, 2000	10,528	3,006,369
Persons per household, 2000	2.89	2.65
Median household income, 1999	\$35,013	\$42,433
Per capita money income, 1999	\$14,300	\$21,154
Persons below poverty, percent, 1999	14.8%	13.0%
Business QuickFacts	Hinesville	Georgia
Wholesale trade sales, 1997 (\$1000)	6,469	163,782,649

Retail sales, 1997 (\$1000)	239,384	72,212,484
Retail sales per capita, 1997	\$8,858	\$9,646
Accommodation and foodservices sales, 1997 (\$1000)	31,323	9,689,927
Total number of firms, 1997	1,337	568,552
Minority-owned firms, percent of total, 1997	31.8%	15.6%
Women-owned firms, percent of total, 1997	31.3%	25.6%
Geography QuickFacts	Hinesville	Georgia
Land area, 2000 (square miles)	16	57,906
Persons per square mile, 2000	1,874.0	141.4
FIPS Code	38964	13
Counties		

- (a) Includes persons reporting only one race.
 (b) Hispanics may be of any race, so also are included in applicable race categories.

FN: Footnote on this item for this area in place of data
 NA: Not available
 D: Suppressed to avoid disclosure of confidential information
 X: Not applicable
 S: Suppressed; does not meet publication standards
 Z: Value greater than zero but less than half unit of measure shown
 F: Fewer than 100 firms

Source U.S. Census Bureau: State and County QuickFacts. Data derived from Population Estimates, 2000 Census of Population and Housing, 1990 Census of Population and Housing, Small Area Income and Poverty Estimates, County Business Patterns, 1997 Economic Census, Minority- and Women-Owned Business, Building Permits, Consolidated Federal Funds Report, 1997 Census of Governments
 Last Revised: Thursday, 08-Jun-2006 09:31:02 EDT

U.S. Census Bureau

State & County QuickFacts

Liberty County, Georgia

People QuickFacts	Liberty County	Georgia
Population, 2005 estimate	57,544	9,072,576
Population, percent change, April 1, 2000 to July 1, 2005	-6.6%	10.8%
Population, 2000	61,610	8,186,453
Population, percent change, 1990 to 2000	16.8%	26.4%
Persons under 5 years old, percent, 2004	11.9%	7.7%
Persons under 18 years old, percent, 2004	34.9%	26.4%
Persons 65 years old and over, percent, 2004	4.6%	9.6%
Female persons, percent, 2004	47.9%	50.6%
White persons, percent, 2004 (a)	49.3%	66.4%
Black persons, percent, 2004 (a)	44.6%	29.6%
American Indian and Alaska Native persons, percent, 2004 (a)	0.6%	0.3%
Asian persons, percent, 2004 (a)	1.9%	2.6%
Native Hawaiian and Other Pacific Islander, percent, 2004 (a)	0.5%	0.1%
Persons reporting two or more races, percent, 2004	3.1%	1.0%
Persons of Hispanic or Latino origin, percent, 2004 (b)	6.9%	6.8%
White persons, not Hispanic, percent, 2004	44.5%	60.2%
Living in same house in 1995 and 2000, pct age 5+, 2000	32.7%	49.2%
Foreign born persons, percent, 2000	5.7%	7.1%
Language other than English spoken at home, pct age 5+, 2000	12.9%	9.9%
High school graduates, percent of persons age 25+, 2000	86.8%	78.6%
Bachelor's degree or higher, pct of persons age 25+, 2000	14.5%	24.3%
Persons with a disability, age 5+, 2000	7,299	1,456,812
Mean travel time to work (minutes), workers age 16+, 2000	21.4	27.7
Housing units, 2004	23,355	3,672,677
Homeownership rate, 2000	50.7%	67.5%
Housing units in multi-unit structures, percent, 2000	20.3%	20.8%
Median value of owner-occupied housing units, 2000	\$79,800	\$111,200
Households, 2000	19,383	3,006,369
Persons per household, 2000	2.93	2.65
Per capita money income, 1999	\$13,855	\$21,154
Median household income, 2003	\$33,942	\$42,421

Persons below poverty, percent, 2003	15.1%	13.3%
Business QuickFacts	Liberty County	Georgia
Private nonfarm establishments, 2003	744	209,137 ¹
Private nonfarm employment, 2003	9,596	3,387,337 ¹
Private nonfarm employment, percent change 2000-2003	1.1%	-2.8% ¹
Nonemployer establishments, 2003	1,932	570,216
Manufacturers shipments, 2002 (\$1000)	D	126,156,636
Retail sales, 2002 (\$1000)	320,355	90,098,578
Retail sales per capita, 2002	\$5,269	\$10,551
Minority-owned firms, percent of total, 1997	32.5%	15.6%
Women-owned firms, percent of total, 1997	27.7%	25.6%
Housing units authorized by building permits, 2004	321	108,356
Federal spending, 2004 (\$1000)	1,016,092	55,152,911 ¹
Geography QuickFacts	Liberty County	Georgia
Land area, 2000 (square miles)	519	57,906
Persons per square mile, 2000	118.7	141.4
FIPS Code	179	13
Metropolitan or Micropolitan Statistical Area	Hinesville- Fort Stewart, GA Metro Area	

¹: Includes data not distributed by county.

- (a) Includes persons reporting only one race.
 (b) Hispanics may be of any race, so also are included in applicable race categories.

FN: Footnote on this item for this area in place of data
 NA: Not available
 D: Suppressed to avoid disclosure of confidential information
 X: Not applicable
 S: Suppressed; does not meet publication standards
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Source U.S. Census Bureau: State and County QuickFacts. Data derived from Population Estimates, 2000 Census of Population and Housing, 1990 Census of Population and Housing, Small Area Income and Poverty Estimates, County Business Patterns, 1997 Economic Census, Minority- and Women-Owned Business, Building Permits, Consolidated Federal Funds Report, 1997 Census of Governments

Last Revised: Thursday, 08-Jun-2006 09:30:56 EDT

**SUPPORTING SALES –
SR119 (AIRPORT ROAD/15th STREET EXTENSION)**

Residential-Lots

No.	Tax PIN	Location	Size	Date	Sale Price	Price/Lot
1	H46 046	Pineland Ave.	34,000 SF	5-24-02	\$17,500	\$17,500
2	H06 054	Hollywood Dr.	30,000 SF	3-12-02	\$10,000	\$10,000
3	N/A (4 lot sale)	Stonehenge SD	± 12,000 SF*	11-19-03	\$62,000	\$15,500
4	C111 031	N. Belmont Ct.	± 11,000 SF	4-20-01	\$16,000	\$16,000

Notes: These are typical single-family residential "lot" sales from Liberty County in the vicinity of Hinesville. Most residential lots on the project are more like the last two sales in terms of size (the size marked with "*" refers to the size per lot). Note that the fourth sale, although older, comes from Triple Crown Plantation, one of the subdivisions impacted by the project. As such, it is very representative of the lots impacted along the project length. However, prices have been advancing in recent years just like most residential markets in the United States. Acreage prices become skewed somewhat since residential lots are typically priced on a per lot basis rather than by acreage or by square feet. Note that the Tax Assessor office assesses residential lots in this area at prices between \$11,000 and \$17,000 per lot. \$17,500/lot selected as a representative value for residential lots. The typical size in this area is approximately one-quarter acre. Therefore, per acre value utilized for calculations will be \$17,500 x 4 or \$70,000. This unit value is utilized for partial take calculations on the attached spreadsheet. For total takes (displacees) an override value of \$17,500 for the entire lot is utilized.

Residential Acreage

No.	Tax PIN	Location	Size	Date	Sale Price	Price/AC
1	H05 094	Willowbrook	6.34 AC	1-30-02	\$285,350	\$45,008
2	N/A	Airport Road	39.82 AC	7-2-03	\$458,600	\$11,517
3	C11 045	Mcaffrey Blvd.	98.82 AC	5-16-01	\$650,000	\$6,578
4	C11 045	Mcaffrey Blvd.	22.1 AC (HG)	5-16-01	\$650,000	\$29,418
5	C10 006	Live Oak Dr.	195.33 AC	6-27-05	\$875,000	\$4,480
6	N/A (multiple)	Meloney Dr.	158.05 AC	3-24-06	\$1,301,015	\$8,232
7	C07 002	15 th St. Ext.	2,630.94 AC	3-10-05	\$6,844,677	\$2,550
8	C08 030	15 th St. Ext.	51.68 AC	11-30-05	\$1,789,200	\$34,621

Notes: Sales 1 and 8 are multi-family. Sale 1 has been developed with "The Pines at Willowbrook," an apartment community. Sale 8 is under development now with a townhome community to be called "Governor's Quarters." Sales 2 through Sale 7 are single-family. Sale 2 is developed with Lexington Subdivision with an entrance off of Airport Road. Sales 3 and 4 are both the sale of a primarily wetland tract with high ground areas now devoted to Fairington Subdivision. Sale 3 analyzes the transaction as a large tract with wetlands and Sale 4 considers the same transaction as if only high ground is considered. Sale 5 is a more rural tract east of the 15th Street Extension that will allow homes or mobile homes. Sale 6 is land left over at the rear of the Cherokee Country Club community. It is apparently planned for extension of streets and additional homes. Sale 7 is the very large "Independence" tract that is currently being started as Liberty County's largest PUD project to date. Sale 8 was the sale of the southernmost part of this tract as a dedicated multi-family section.

Some trends are clear. Larger sites tend to sell for lower unit values than smaller acreage tracts. Multi-family sells at higher ranges than single-family. More urban tracts sell at higher rates than tracts that are rural in character. The per-acre range of likely values for residential acreage is \$10,000 to \$30,000. Multi-family land will tend to go at the upper range of value. Single-family will vary widely with more urban and smaller tracts tending toward the upper end of the range and more rural and larger tracts tending toward the lower end of the range.

Commercial/Industrial/O & I

No.	Tax PIN	Location	Size	Date	Sale Price	Price/AC
1	H17 005R	F. Cochran/ Weeping Willow	1.01 AC	10-27-00	\$200,000	\$198,020
2	H17 005S	F. Cochran	1.43 AC	3-19-01	\$230,000	\$160,839
3	H17 005	F. Cochran/ Willowbrook	15.27 AC	7-22-99	\$973,000	\$63,720
4	C07 002A	15 th St. Ext.	2.503 AC	5-17-01	\$46,400	\$18,538
5	H49 036A	US84/ Macarthur	0.98 AC	10-19-05	\$561,224	\$576,678
6	H37 039, 039H	US84/ Baker Lane	7.24 AC	7-27-05	\$675,000	\$93,232
7	H46 074, 074A	US84/ MLK Blvd.	1.2 AC	12-8-04	\$425,000	\$354,167
8	H40 016	US84/ S. Main St. Ext.	1.24 AC	3-17-06	\$75,000	\$60,484
9	C11 011	SR196	0.57 AC	6-23-05	\$75,000	\$131,579
10	C11 010	SR196	1.79 AC	10-8-04	\$150,000	\$83,799

Notes: Commercial sites of this type are typically compared on a per square foot basis. A price per acre basis is used, however, in order to maintain consistency across all property types in the cost estimate. Sales 1 and 2 are relatively old but are included to illustrate value trends in a PUD type setting where a master development raises values for all properties. They are from the Willowbrook development at the approximate intersection of SR106 with Frank Cochran Drive. Sale 3 is also from this area and is included as a representative large commercial sale. Sale 4 is the sale of the northernmost project parcel just outside the limits of Fort Stewart. It is a rural commercial sale with a lower price reflecting the fact that the Independence development was not yet announced at the time of the sale. Sale 5 is a very high end sale reflecting superior property attributes due to US84 location closer to central Hinesville as well as positive perception created by close proximity to the Lowe's master development on US84 close to the announced terminus of the Frank Cochran Road extension. It has been developed with a Chili's restaurant. Sale 6 is a larger site with some US84 frontage but primary frontage to secondary roads. It is being developed as a mini-warehouse facility. Sale 7 is the site of the new McDonalds with an attached c-store. This is a primary intersection within central Hinesville. Sale 8 is currently being prepped for development. This sale is more representative of "rural commercial" properties as it is close to SR119 on US84. Sale 9 is a small site being developed presently with a U-Haul office. It also has a more "rural commercial" feel. Sale 10 is an adjacent site being set up for mini warehouses. It formerly held a small pond or pit that was apparently filled by the seller prior to the date of sale.

Commercial sale price unit values range from \$18,538 to \$576,678 per acre. Sales 2, 6, 8, 9 and 10 are considered most appropriate with a unit value range of \$60,484 to \$160,839 per acre. It must be remembered that the project corridor is relatively low-end commercial and relatively rural in character. There is a fairly large amount of undeveloped acreage already zoned commercial along the project, however.

The appraiser generally estimates lower-end commercial within a range of \$25,000 to \$75,000 per acre. Higher-end commercial (only corners at the major intersections with US84 and SR196) is estimated at \$150,000 per acre. The higher end of the range of value for lower-end commercial is utilized for the PUD land on the northern project stretch. This land will likely be preferable once the Independence Tract development accelerates. The absorption period may be somewhat long, however. This is even more the case for the extensive strip commercial zones along the project corridor south of SR196.

Note that arms length, fair market sales of industrial and O & I properties are relatively infrequent in the Hinesville area of Liberty County. These properties may be considered as lower-quality versions of conventional commercial land and are valued within the lower-end commercial range described above.

As with the residential acreage properties, the commercial, industrial and O & I properties are each placed within the ranges described above depending on various property attributes. These include factors as below with the preference generally moving from left to right:

Larger Tracts	>	Smaller Sites	
O & I Zoning	>	Industrial Zoning	> Commercial Zoning
Rural Location	>	More Urban Location	
Interior Properties	>	Properties at Major Intersections	
Intermittent Wetlands	>	High Ground Properties	
Irregular Shape	>	Conventional Shape	

The appraiser has considered these various elements while assigning a unit value for each property for calculations within the spreadsheet. A thorough attempt was made to review each parcel and to treat each uniformly in the context of the way that other parcels were valued on the project while considering the elements of value outlined above.

Note that the PUD land along the northern leg of the project may appreciate rapidly once some degree of "critical mass" is achieved in terms of the realization of the overall development scheme and the resulting large count of viable rooftops are placed nearby. The timetable for this point is uncertain at present and absorption for this land may take some time. It should also be noted that this zone features a large amount of intermittent wetlands. This is also appears to be the case with much of the strip-zoned commercial land located between US84 and SR196 along SR119.

LAST RESORT HOUSING PRELIMINARY STUDY

The owner and tenant occupant displacees listed on the Last Resort Housing Displacee Inventory may possibly require the use of Last Resort Housing Procedures.

In the utilization of Last Resort Housing, five possibilities exist. These are: (1) moving the existing structure onto remaining land or other lots within the area; (2) utilization of available housing for rent or sale, and making supplementary payments in excess of \$5,250.00 for tenant occupants, and making supplementary payments in excess of \$22,500.00 for owner occupants; (3) purchasing existing housing, available for sale, and renting to the displacees at a rental amount comparable to their existing rent; (4) purchasing existing housing, available for sale, and deeding it to the displacee; and (5) constructing new housing on vacant lots in the area and relocating the displacees into them. Of these options it appears none will have to be applied as there is an adequate supply of homes for sale and homes for rent in the project area. In any event, each displacee's situation will be examined on an individual basis during the acquisition stage, and more specific solutions will be made at that time, based on known facts.

Based on the foregoing information, we can assure that all relocatees will be offered decent, safe, and sanitary housing, within their financial means, and a list of available and comparable housing furnished to all displacements attached with the notice to vacate as well as the notice of availability. Within a reasonable period of time prior to displacement, a comparable replacement dwelling will be made available or provided for displaced individuals and families who are initial occupants or adequate replacement dwelling will be made available or provided for subsequent occupants. The Liberty County Relocation Program is realistic and is adequate to provide orderly, timely, and efficient relocation of displaced persons.

SR118 PARCEL LISTING

MAP	PIN	SIZE (AC)	NUMBER	QUALITY	ZONING	IMPS ?	ASSESSED VALUE		TRADE NO	UNIT VALUE	LAND COST	BLDG COST	SITE IMPS	DAMAGES	RELOCATION NOTES
							LAND	IMPS							
5	008 032N	1.73			HINESVILLE	Com	191,800	197,864	0.182	\$ 150,000.00	\$ 27,000.00				2 of 23 park spaces lost (2/25/01) CC to enclose fire escape & service bay (\$1250.00) PARKERS Consequential damage to trim, land (window unit, outside for assestment)
6	008 032S				HINESVILLE	Com	221,150		0.172	\$ 75,000.00	\$ 72,000.00				
6	008 032E	5.97			HINESVILLE	MH	37,000	2,000	0.197	\$ 10,000.00	\$ 8,570.00				
6	008 032W	1.01			HINESVILLE	Com	119,790	136,034	0.119	\$ 150,000.00	\$ 26,500.00				
6	008 032U	1.08			HINESVILLE	Com	248,500		0.134	\$ 75,000.00	\$ 24,000.00		\$ 15,000.00	\$ 25,000.00	SM, minor landscaping, TOOD G-STONE Com also sited under an store (consequential land damage)
6	008 032V	1.01			HINESVILLE	Com	88,859		0.107	\$ 50,000.00	\$ 15,500.00				
6	008 032X	0			HINESVILLE	Res	172,817		0.161	\$ 30,000.00	\$ 4,500.00				Consequential damage to land (mud, soil & stream) Consequential damage to land (mud, soil & stream)
7	008 032Y	24.81			HINESVILLE	Res	28,735		0.048	\$ 20,000.00	\$ 12,160.00				
7	008 032Z	39			HINESVILLE	Res	99,975	27,500	0.060	\$ 10,000.00	\$ 6,000.00				
7	008 046	4.33			HINESVILLE	Res	19,271		1.950	\$ 10,000.00	\$ 19,000.00				
7	008 046	0			HINESVILLE	Res	11,900	79,275	0.023	\$ 70,000.00	\$ 1,010.00				
7	008 033	28.01			HINESVILLE	Res	280,100		3.298	\$ 10,000.00	\$ 32,950.00				CC to reconfigure drive toward WALDO PARFORD SCHOOL Proximity 50' to 30' (M)
7	008 046	111.19			HINESVILLE	Res	78,726	250,304	1.166	\$ 10,000.00	\$ 11,800.00				
7	008 046	2.78			HINESVILLE	Res	78,726	29,587	0.140	\$ 10,000.00	\$ 1,800.00				
8	008 030	24.38			HINESVILLE	POD	1,729,978		1.449	\$ 75,000.00	\$ 108,400.00				
8	008 030	27.32			HINESVILLE	POD	1,484,850		1.000	\$ 75,000.00	\$ 75,000.00				
8	007 032	289.84			HINESVILLE	POD	8,572,540		13.820	\$ 15,000.00	\$ 461,780.00				
10	007 032	58.16			HINESVILLE	POD	71,200	50,504	4.841	\$ 10,000.00	\$ 40,410.00				
11	007 A 031	27.32			HINESVILLE	Com	71,200	36,888	3.179	\$ 20,000.00	\$ 79,475.00				
11	007 B 031	27.32			HINESVILLE	Com	71,200	36,888	2.472	\$ 20,000.00	\$ 123,850.00				
11	007 B 031	27.32			HINESVILLE	Com	71,200	36,888	2.472	\$ 20,000.00	\$ 123,850.00				
TOTALS										\$ 2,522,840.00	\$ 480,173.00	\$ 13,800.00	\$ 980,000.00	\$	

Meeting Minutes
Initial Concept Meeting

Date: February 14, 2006
Date of Meeting: February 14, 2006
Project: State Route 119 Widening and Reconstruction
Purpose of Meeting: Initial Concept Meeting
Meeting Location: Liberty County Courthouse

Attendees:

NAME	ORGANIZATION	PHONE NO.
Billy Edwards	City of Hinesville	912-876-3564
Henry Frasier, Sr.	City of Waltourville	912-368-7501
George Shenk	GDOT	912-427-5859
Donnie Boyd	GDOT	912-370-2588
Teresa Scott	GDOT	912-427-5788
Keith Stewart	GDOT	912-427-5864
Dennis Odum	GDOT	912-427-5716
Sheree Smart	GDOT	912-427-5756
Sonny Timmerman	LCPC	912-408-2030
Sally Dowlen	LCPC	912-408-2030
Brandon Wescott	LCPC	912-408-2030
Joey Brown	Liberty County	912-876-2164
Mark Pickering	Thomas & Hutton Engineering Co.	912-234-5300
Jeff Ingham	Thomas & Hutton Engineering Co.	843-725-5266
Scott Burns	Thomas & Hutton Engineering Co.	912-721-4076

Meeting Minutes
Initial Concept Meeting

SUMMARY OF ISSUES:

RIGHT OF WAY ISSUES:

- 200 feet proposed right of way shown throughout project. Right of way required will lessen when project limits are updated.

ENVIRONMENTAL ISSUES:

- Environmental studies will take place on both State Route 119 and 15TH Street segments.
- Cemetery location and limits should be checked so that it is not within right of way.
- Inert landfill needs to be checked that it is not within right of way. If so, area will need to be tested.

TYPICAL SECTION AND ALIGNMENT ISSUES:

- Added Type C median crossover for access by both the school and church along SR 119.
- Update sidewalk on east side from 5' to 6' width.
- Eliminate right in-right out driveway at Highway Patrol office. Replace driveways at Savannah Technical College campus and Highway Patrol office with one drive that would allow access to both. Side roads in that area to be realigned for better access.
- Coordinate with Highway Patrol office (Sgt. Keith Collins) on driveway access for Highway Patrol office.
- Medians should be grassed instead of concrete.
- Add median break at fire station under water tower access to fire station and nearby apartments.
- Business near US 84 needs access for 18 wheelers.
- Add jug handles where applicable to allow adequate space for U-turns.
- Contact Board of Education (Dr. Steve Wilmoth) for tie-ins/access at schools.
- Coordinate with Independence Park design on location of all possible required median breaks.

UTILITY ISSUES:

- Utility companies to relocate utilities.
- Check that right of way does not impact pump station near Lexington subdivision.

Meeting Minutes
Initial Concept Meeting

- Locate force main on east side of road near Pine Ridge and Lexington subdivisions.

OTHER ISSUES:

- County to request that 15TH Street be added to SR 119 as a federally funded segment.
- Look into the drainage at the Southside of the jail and detention pond on proposed school property. These issues will be addressed with other drainage in preliminary design.

Meeting Minutes
Final Concept Meeting

Date: June 16, 2006
Date of Meeting: June 16, 2006
Project: State Route 119 Widening and Reconstruction
Purpose of Meeting: Initial Concept Meeting
Meeting Location: Liberty County Courthouse

Attendees:

NAME	ORGANIZATION	PHONE NO.
Ron Nelson	GDOT	
Cynthia Phillips	GDOT	912-427-5767
Brad Saxon	GDOT	
Teresa Scott	GDOT	912-427-5788
Keith Stewart	GDOT	912-427-5864
Sonny Timmerman	LCPC	912-408-2030
Joey Brown	Liberty County	912-876-2164
Doyle Kelley	Thomas & Hutton Engineering Co.	912-234-5300
Scott Burns	Thomas & Hutton Engineering Co.	912-721-4076

Meeting Minutes
Final Concept Meeting

SUMMARY OF ISSUES:

RIGHT OF WAY ISSUES:

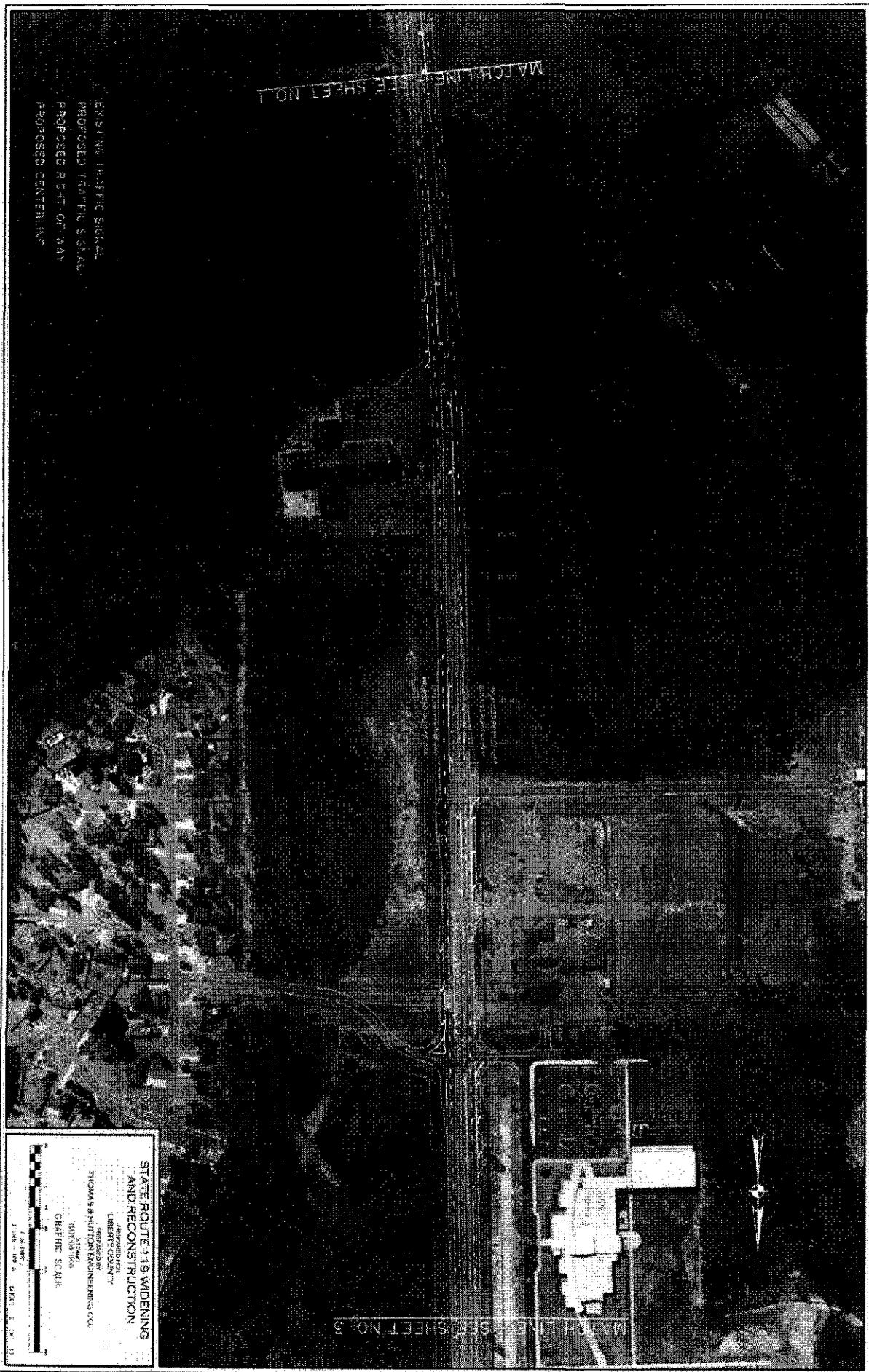
- Adjust right-of-way where possible to prevent possible displacements.

TYPICAL SECTION AND ALIGNMENT ISSUES:

- Should Type B median opening be used for this design? Type B requires a minimum median width of 32', median width of project 24'.
- Realign proposed roadway to keep as much of the existing roadway as possible between US 84 and SR 196.
- Add additional length to the turn lanes at school entrances.

OTHER ISSUES:

- Include right-of-way cost estimate with final concept.
- Traffic signal warrant analysis for additional signals on the job requested.
- Update conceptual cost estimate based on current mean item summary.



MATCHLINE - SEE SHEET NO. 1

MATCHLINE - SEE SHEET NO. 3

EXISTING TRAFFIC SIGNAL
PROPOSED TRAFFIC SIGNAL
PROPOSED RIGHT OF WAY
PROPOSED CENTERLINE

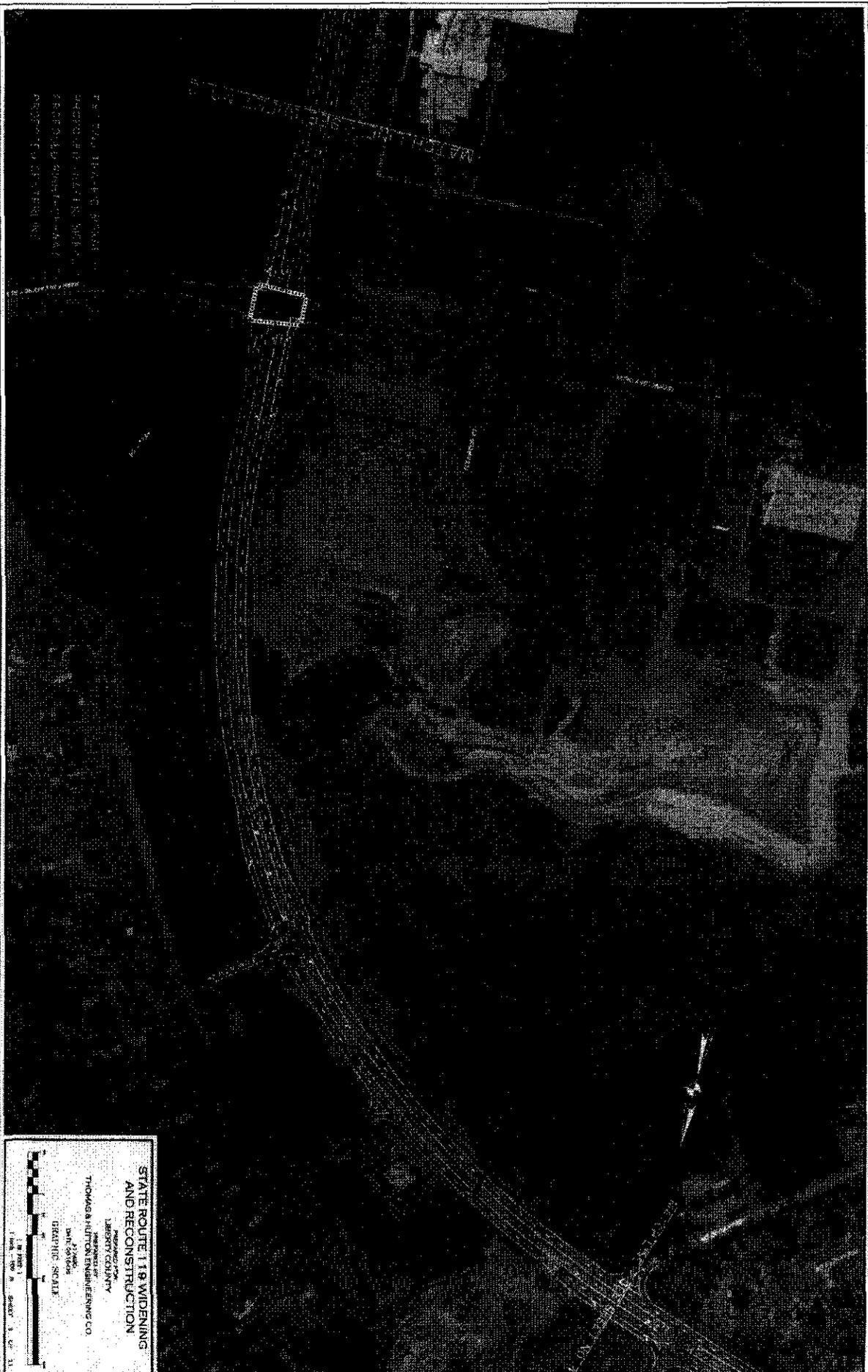
**STATE ROUTE 119 WIDENING
AND RECONSTRUCTION**

LIBERTY COUNTY

DESIGNED BY
TOMAS & HUTTON ENGINEERS, CO.
LIBERTY, MO.
DATE: 11/15/07

CIVIL SCALE

1" = 100'



STATE ROUTE 118
 WIDENING AND RECONSTRUCTION
 PROJECT LOCATION MAP
 SHEET 3 OF 11

**STATE ROUTE 118 WIDENING
 AND RECONSTRUCTION**
 PROJECT LOCATION MAP
 SHEET 3 OF 11

PREPARED BY
 THOMAS & HILTON ENGINEERING CO.
 1015 S. 11th St.
 DENVER, CO 80202

DRAWING SCALE
 1" = 100'

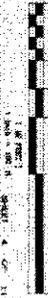
PROJECT NO. 119
LIBERTY COUNTY
LIBERTY COUNTY
LIBERTY COUNTY
LIBERTY COUNTY

**STATE ROUTE 119 WIDENING
AND RECONSTRUCTION**

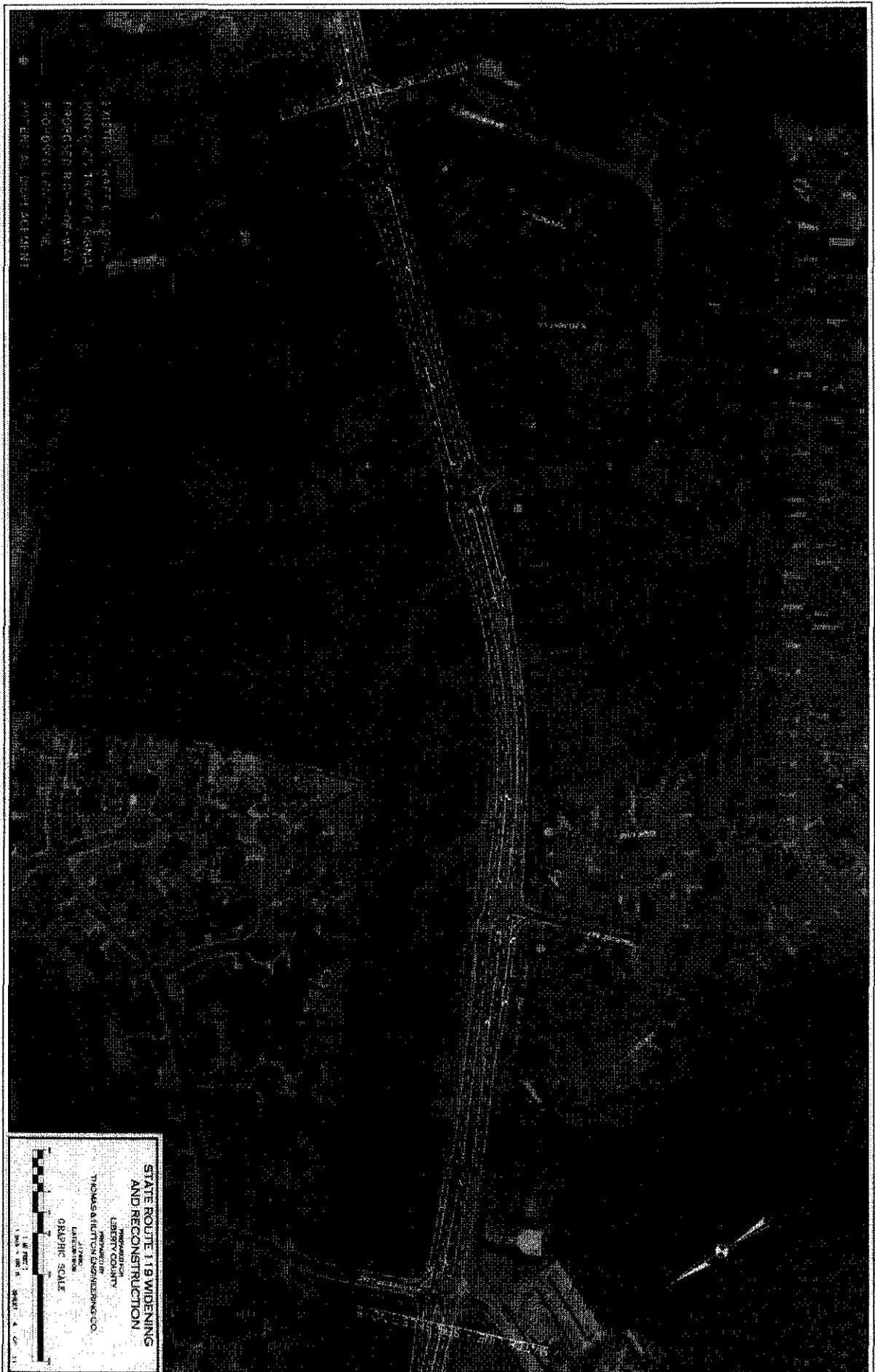
LIBERTY COUNTY
LIBERTY COUNTY
LIBERTY COUNTY
LIBERTY COUNTY

THOMAS & TILTON ENGINEERING CO.
LIBERTY, MISSISSIPPI

SCALE
GRAPHIC SCALE



1" = 100'





EXISTING TRAFFIC SIGNAL
PROPOSED TRAFFIC SIGNAL
PROPOSED RIGHT-OF-WAY
PROPOSED CENTERLINE

STATE ROUTE 119 WIDENING
AND RECONSTRUCTION
LIBERTY COUNTY
THOMAS E. HUTTON ENGINEERING CO.
LIBERTY, TEXAS
SCALE: 1" = 50'

1" = 50'
0 10 20 30 40 50

SEE SHEET NO. 6

MATCH LINE - SEE SHEET NO. 5

ENGINEERED BY
THOMAS & HUTTON ENGINEERING CO.
REGISTERED PROFESSIONAL ENGINEERS
PROJECT NO. 119-1111
PROCESSED ON 11/11/11

**STATE ROUTE 119 WIDENING
AND RECONSTRUCTION**

PROJECTED BY
THOMAS & HUTTON ENGINEERING CO.
REGISTERED PROFESSIONAL ENGINEERS
LIBERTY COUNTY

BY
M. H. HUTTON
GRAPHIC STANDARDS

1" = 40'

MATCH LINE - SEE SHEET NO. 6