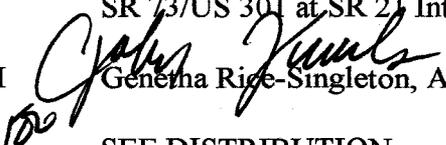


D.O.T. 66

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE P. I. No. 0007693, Screven County **OFFICE** Preconstruction
CSSTP-0007-00(693)
SR 73/US 301 at SR 21 Intersection Improvements **DATE** September 1, 2006

FROM  Genetha Rice-Singleton, Assistant Director of Preconstruction

TO  SEE DISTRIBUTION

SUBJECT APPROVED PROJECT CONCEPT REPORT

Attached for your files is the approval for subject project.

GRS/cj

Attachment

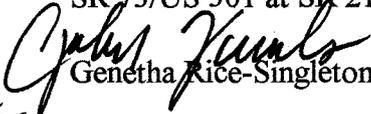
DISTRIBUTION:

Brian Summers
Harvey Keeper
Ken Thompson
Jamie Simpson
Michael Henry
Keith Golden
Joe Palladi (file copy)
Paul Liles
Babs Abubakari
Mike Thomas
BOARD MEMBER

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

FILE: P. I. No. 0007693, Screven County **OFFICE** Preconstruction
 CSSTP-0007-00(693)
 SR 73/US 301 at SR 21 Intersection Improvements **DATE** August 28, 2006

FROM  Genetha Rice-Singleton, Assistant Director of Preconstruction

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

SUBJECT PROJECT CONCEPT REPORT

This project is the signal installation and operational improvements to the intersection of SR 73/US 301 at SR 21 in the city of Sylvania. Currently, SR 21 Business consists of one, 14' lane in each direction with a 19' right turn lane and urban shoulders. Existing SR 73 consists of one, 11' lane in each direction with an 11' left turn lane with urban shoulders. This intersection is located within a developed commercial area. It serves both local and commuter traffic. The current configuration and traffic operation do not serve the existing traffic operations effectively. The base year (2012) traffic volume on this section of SR 73 is 11,000 VPD and future volumes are expected to be 15,800 VPD in the year 2032. Accident data indicate that many accidents occur when vehicles attempt to make a left turn at the intersection. Traffic operations at this intersection will continue to deteriorate unless improvements are made.

The construction will consist of operational improvements and the installation of a stop and go signal. State Route 21 Business will consist of one, 12' lane in each direction with a 12' flush median and 10' urban shoulders with curb and gutter and sidewalk on each side; SR 73 will consist of one, 12' lane in each direction with a 12' flush median and 10' urban shoulders with curb and gutter and sidewalk on each side. Traffic will be maintained during construction.

Environmental concerns include requiring a COE 404 Permit; a Categorical Exclusion will be prepared; a public hearing open house is not required; time saving procedures are appropriate.

The estimated costs for this project are:

	<u>PROPOSED</u>	<u>APPROVED</u>	<u>FUNDING</u>	<u>PROG DATE</u>
Construction (includes E&C and inflation)	\$398,000	\$397,000	L240	Lump
Right-of-Way	-0-	\$ 11,000	L240	Lump
Utilities*	-0-	-0-		

*to be determined

David Studstill

Page 2

P. I. No. 0007693, Screven

August 28, 2006

I recommend this project concept be approved.

GRS:JDQ/cj

Attachment

CONCUR



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

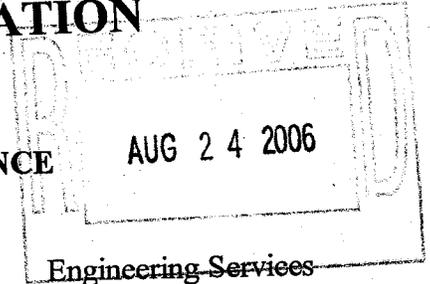
APPROVE



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

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENTAL CORRESPONDENCE



FILE: STP-0007-00(693) Screven
P.I. No. 0007693
Intersection Improvements

OFFICE: ~~Engineering Services~~

DATE: August 23, 2006

FROM: Brian K. Summers, P.E., Project Review Engineer *REW*

TO: Genetha Rice Singleton, Assistant Director of Preconstruction

SUBJECT: REVISED CONCEPT REPORT

We have reviewed the Revised Concept Report submitted August 15, 2006 from Alan Smith and have no comments:

The costs for this project are:

Construction	\$327,625
Inflation	\$33,582
E & C	\$36,121
Reimbursable Utilities	\$0.00
Right of Way	\$10,500

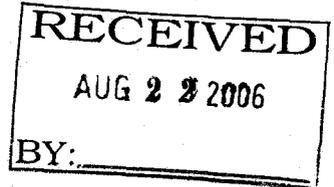
REW

c: Mike Thomas, Attn.: Alan Smith

SCORING RESULTS AS PER MOG 2440-2

Project Number: STP-0007-00(693)		County: Screven		PI No.: 0007693	
Report Date: August 15, 2006		Concept By: DOT Office: District 2			
<input checked="" type="checkbox"/> Concept Stage		Consultant: N/A			
Project Type: Choose One From Each Column		<input type="checkbox"/> Major	<input checked="" type="checkbox"/> Urban	<input type="checkbox"/> ATMS	
		<input checked="" type="checkbox"/> Minor	<input type="checkbox"/> Rural	<input type="checkbox"/> Bridge Replacement	
				<input type="checkbox"/> Building	
				<input type="checkbox"/> Interchange Reconstruction	
				<input checked="" type="checkbox"/> Intersection Improvement	
				<input type="checkbox"/> Interstate	
				<input type="checkbox"/> New Location	
				<input 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



INTERDEPARTMENT CORRESPONDENCE

DATE August 15, 2006

DAS
FROM Alan Smith, District Design Engineer
TO Margaret B. Pirkle, P.E., Assistant Director of Preconstruction

SUBJECT STP-0007-00 (693) Screven County, P.I. # 0007693
Intersection improvements on SR 21 Business at SR 73 in the City of Sylvania
Revised Project Concept Report

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

The above mentioned project consists of the installation of a traffic signal and operational improvements to the intersection of SR 21 Business and SR 73 in the City of Sylvania.

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

DATE 8/22/06

Joseph P. Pirkle
State Transportation Planning Administrator

Distribution:

Brian Summers
Harvey Keeper
Keith Golden
Joe Palladi
Jamie Simpson

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
PROJECT CONCEPT REPORT**

District Two Design Office

Project Number: *CSSTP-0007-00 (693)*

County: *Screven*

P. I. Number: *0007693*

Federal Route Number: *301*

State Route Number: *73 / 21 Business*

County Road Number: *None*

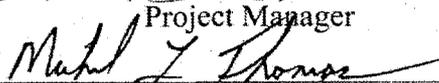
Recommendation for approval:

DATE 8-15-06



Project Manager

DATE 8-15-06



District Engineer

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

DATE _____

State Transportation Planning Administrator

DATE _____

State Transportation Programming Engineer

DATE _____

State Environmental/Location Engineer

DATE _____

State Traffic Safety and Design Engineer

DATE 8/23/06



Project Review Engineer

DATE _____

State Bridge & Structural Design Engineer

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
PROJECT CONCEPT REPORT**

District Two Design Office

Project Number: *CSSTP-0007-00 (693)*

County: *Screven*

P. I. Number: *0007693*

Federal Route Number: *301*

State Route Number: *73 / 21 Business*

County Road Number: *None*

Recommendation for approval:

DATE *8-15-06*

Alan Smith
Project Manager

DATE *8-15-06*

Mark L. Thomas
District Engineer

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

DATE _____

State Transportation Planning Administrator

DATE _____

State Transportation Programming Engineer

DATE *8.28.06*

Thomas D. Kuper
State Environmental/Location Engineer

DATE _____

State Traffic Safety and Design Engineer

DATE _____

Project Review Engineer

DATE _____

State Bridge & Structural Design Engineer

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
PROJECT CONCEPT REPORT**

District Two Design Office

Project Number: *CSSTP-0007-00 (693)*

County: *Screven*

P. I. Number: *0007693*

Federal Route Number: *301*

State Route Number: *73 / 21 Business*

County Road Number: *None*

Recommendation for approval:

DATE *8-15-06*

Alan Smith
Project Manager

DATE *8-15-06*

Mark J. Thomas
District Engineer

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

DATE _____

State Transportation Planning Administrator

DATE *8/28/06*

James T. Simpson
State Transportation Programming Engineer

DATE _____

State Environmental/Location Engineer

DATE _____

State Traffic Safety and Design Engineer

DATE _____

Project Review Engineer

DATE _____

State Bridge & Structural Design Engineer

NOTICE OF LOCATION AND DESIGN APPROVAL

STP-0007-00 (693) Screven County
P.I. # 0007693

Notice is hereby given in compliance with Georgia Code 22-22-109 that the Georgia Department of Transportation has approved the Location and Design of the above project.

The date of location and design approval was SEPTEMBER 1, 2006
Date of Approval

This project consists of operational improvements and the installation of a stop and go signal at the intersection of SR 21 Business and SR 73 in the City of Sylvania. Traffic will be maintained on the existing alignment during construction.

Drawings of the proposed project are on file and are available for inspection at the Georgia Department of Transportation.

Bonnie McMakin
Bonnie.McMakin@dot.state.ga.us
685 Kite Road
Swainsboro, Georgia 30401

Any interested party may obtain a copy of the drawings or maps or plats or portions thereof by paying a nominal fee and requesting in writing to:

GEORGE M. BREWER
PRECONSTRUCTION ENGINEER
P.O. BOX 8
TENNILLE, GEORGIA 31089
478-552-4629

Any written request or communication in reference to this project **SHOULD** include the Project and PI numbers as noted at the top of this notice.

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
PROJECT CONCEPT REPORT**

District Two Design Office

Project Number: *CSSTP-0007-00 (693)*

County: *Screven*

P. I. Number: *0007693*

Federal Route Number: *301*

State Route Number: *73 / 21 Business*

County Road Number: *None*

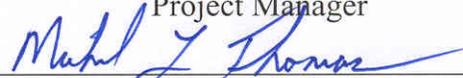
Recommendation for approval:

DATE 8-15-06



Project Manager

DATE 8-15-06



District Engineer

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

DATE _____

State Transportation Planning Administrator

DATE _____

State Transportation Programming Engineer

DATE _____

State Environmental/Location Engineer

DATE _____

State Traffic Safety and Design Engineer

DATE _____

Project Review Engineer

DATE _____

State Bridge & Structural Design Engineer



SYLVANIA
POP. 2,871
ELEV. 210

PROJECT

G.M.D.
34

Scriven
Co. Elem.
Sch.

Laricy Grove
Church

Wesley
Church

Waters Grove
Church

Raddick
Cemetery

Lawton
Grove
Church

Friendship
Church

Friendship
Memorial
Cemetery

Camp Grove
Church

Mount
Pleasant
Cemetery

Free Will
Church

Thompson
Cemetery

Green Hill
Church

Farmdale
Church

New Robbins
Branch Church

Goid
Church

Heavenly Paradise
Mem. Garden

Howard
Cemetery

Lee
Pond

Arnett
School

Double
Heads

White
Hill

JOHN

Robbins

bbins

bbins

Need and Purpose: *SR 73 runs in a north/south direction through the business district of the City of Sylvania connecting with SR 73/US 301 Loop just outside the city limits on both ends of the city. SR 21 Business begins at SR 73 Loop and continues in a northwest/southwest direction through the City of Sylvania. There have been numerous requests for a stop-and-go signal at this location by the locals. Terminals for local fire and rescue vehicles are located on SR 21 west, and emergency vehicles from these facilities frequently pass through this intersection when going to the central sections of town. Accident data has been compiled for the years 2000 through 2005, the following is a summary of the accidents: There have been 17 accidents since 1998, 1 rear end accident in 1998, 4 right angle accidents and 1 rear end accident in 2000, 4 rear end collisions and 2 right angle collisions in 2001, and 2 rear end collisions and 1 right angle collision in 2002. The need exists to install a stop-and-go signal at this location to facilitate vehicles through the area to relieve congestion at peak traffic flow times and to improve the safety of this intersection.*

Description of the proposed project: *This project consists of a signal installation and operational improvements to the intersection of SR 21 Business at SR 73 in the City of Sylvania.*

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

PDP Classification: Minor Major

Federal Oversight: Full Oversight , Exempt , State Funded , or Other

Functional Classification: *SR 21 Business - Rural Minor Arterial
SR 73 - Rural Principal Arterial*

U. S. Route Number(s): 301
County Road Number(s): None

State Route Number(s): 73,21 Business

Traffic (AADT):

Current Year: 11000 (2012)

Design Year: 15800 (2032)

Existing design features:

- Typical Section: *SR 21 Business: 1 - 14-ft. asphalt travel lane in each direction with a 19-ft. right turn lane and urban shoulders; SR 73 1 - 11-ft. travel lane in each direction and an 11-ft. left turn lane with urban shoulders*
- Posted speed: *SR 73 = 25 MPH; SR 21 Bus = 25 MPH*
- Minimum Radius of curvature: *1146-ft Estimated*
- Maximum grade: *5% Estimated*
- Width of right of way: *SR 73 = 60-ft.; SR 21 Business = Varies 50-ft to 60-ft*
- Major structures: *None*
Sufficiency Rating: NA
- Major interchanges or intersections along the project: *None*
- Existing length of roadway: *SR 21 - 1300-ft or 0.25 mile; SR 73 - 1500-ft or 0.28 miles.*

Proposed Design Features:

- Proposed typical section(s): *SR 21 Business - 1 - 12-ft. asphalt travel lane in each direction with a 12-ft. flush median and 10-ft. urban shoulders with curb, gutter and sidewalk each side; SR 73 - 1 - 12-ft. asphalt travel lane in each direction with a 12-ft. flush median and 10-ft. urban shoulders with curb, gutter and sidewalk each side.*
- Proposed Design Speed Mainline: *SR 21 Business - 25 MPH; SR 73 - 25 MPH*
- Proposed Maximum grade Mainline: *6%*
- Maximum grade allowable Mainline: *6%*
- Proposed Maximum grade Side Street: *6%*
- Maximum grade allowable on Side Streets: *6%*
- Proposed Maximum grade driveway: *11%*
- Proposed Minimum Radius of curve: *Match existing alignment*
- Minimum Radius allowable: *314-ft.*
- Right of way
 - Width: *SR 73 will require drive easements on the east side to re-arrange right of way control and tie-in driveways*
 - Easements: Temporary , Permanent , Utility , Other .
 - Type of access control: Full , Partial , By Permit , Other .
 - Number of parcels: *3* Number of displacements: *0*
 - Business: *0*
 - Residences: *0*
 - Mobile homes: *0*
 - Other: *0*
- Structures:
 - Bridges: *None*
 - Retaining walls: *None*
- Major intersections and interchanges: *None*
- Traffic control during construction: *Alternate "A" - Traffic will be maintained on existing roadways during construction*
- Design Exceptions to controlling criteria anticipated:

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

- Design Variances: *None Anticipated*
- Environmental concerns: *Underground Storage Tanks are located within the project limits. A field investigation will be performed to determine any contamination of surrounding soils.*

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

- Utility involvements:
 - Telephone - *Alltel, Georgia, Planters Telephone,*
 - Power – *Planters EMC, City of Sylvania*
 - Water – *City of Sylvania*
 - Sewer – *City of Sylvania*
 - Gas – *City of Sylvania*
 - Cable TV – *Comcast Communications*

All utilities appear to be located within the existing Right of Way and shall be relocated at their owner's expense. This is subject to change once prior rights research has been performed.

Project responsibilities:

- Design: *GDOT District 2 Design Section*
- Right of Way Acquisition: *City of Sylvania (See attached Property owner Meeting Minutes)*
- Relocation of Utilities: *Utility Owners*
- Letting to contract: *GDOT Atlanta Contracts Administration*
- Supervision of construction: *GDOT, Area Engineer - Area Two*
- Providing material pits: *In Contract*
- Providing detours: *None Required*

Coordination

- Concept meeting date: *June 2, 2006*
- P. A. R. meetings: *NA*
- FEMA, USCG, and/or TVA: *The City of Sylvania participates in the FIRM program. See attached map.*
- Public involvement: *None*
- Local government commitments: *The City of Sylvania will be asked to relocate any of their own utilities located within the existing ROW at their expense.*
- Other projects in the area: *None*

Scheduling – Responsible Parties' Estimate

- Time to complete the environmental process: *1 Year*
- Time to complete preliminary construction plans: *6 Months*
- Time to complete right of way plans: *3 Months*
- Time to complete the Section 404 Permit: *1 Year*
- Time to complete final construction plans: *6 Months*
- Time to complete to purchase right of way: *1 Year*

Other alternates considered:

1. *Alternate "B" - No Build: This alternate was not selected because it does not address the safety of this intersection and provides no solution to the problems at this location.*

Comments: *This office recommends that this report be approved for implementation.*

Attachments:

1. Cost Estimates:
 - a. Construction including E&C
 - b. Utilities
 - c. Right of Way
2. Typical section
3. Traffic Counts
4. Location and Design Notice
5. Traffic Engineering Report
6. Property Owner Meeting Minutes

Detailed Estimate – CSSTP-0007-00 (693) Screven County

P.I. # 0007693

Section Roadway

Item Number	Quantity	Units	Unit Price	Item Description	Cost
150-1000	1	LS	50000.00	TRAFFIC CONTROL	50000.00
205-0001	500	CY	3.66	UNCLASS EXCAV	1830.00
206-0002	2903	CY	4.56	BORROW EXCAV, INCL MATL	13237.68
310-1101	475	TN	13.89	GR AGGR BASE CRS, INCL MATL	6597.75
318-3000	225	TN	16.12	AGGR SURF CRS	3627.00
402-1812	150	TN	46.00	RECYCLED ASPH CONC LEVELING, INCL BITUM MATL & H LIME	6900.00
402-3110	261	TN	50.00	RECYCLED ASPH CONC 9.5 MM SUPERPAVE, GP 1 OR 2, INCL BITUM	13050.00
413-1000	200	GL	1.02	BITUM TACK COAT	204.00
441-0018	467	SY	31.52	DRIVEWAY CONCRETE, 8 IN TK	14719.84
441-0104	1000	SY	22.08	CONC SIDEWALK, 4 IN	22080.00
441-0302	1	EA	1190.00	CONC SPILLWAY, TP 2	1190.00
441-0740	1594	SY	24.54	CONCRETE MEDIAN, 4 IN	39116.76
441-6222	6100	LF	10.66	CONC CURB & GUTTER, 8 IN X 30 IN, TP 2	65026.00
500-9999	12	CY	174.32	CLASS B CONC, BASE OR PVMT WIDENING	2091.84
Section Sub Total:					\$239,670.87

Section Temporary Erosion Control

Item Number	Quantity	Units	Unit Price	Item Description	Cost
163-0232	4	AC	433.98	TEMPORARY GRASSING	1796.68
163-0240	7	TN	220.88	MULCH	1656.60
163-0300	2	EA	1036.21	CONSTRUCTION EXIT	2072.42
163-0520	250	LF	10.41	CONSTRUCT AND REMOVE TEMPORARY PIPE SLOPE DRAIN	2602.50
165-0030	250	LF	1.33	MAINTENANCE OF TEMPORARY SILT FENCE, TP C	332.50
165-0101	2	EA	337.90	MAINTENANCE OF CONSTRUCTION EXIT	675.80
167-1000	2	EA	2768.05	WATER QUALITY MONITORING AND SAMPLING	5536.10
167-1500	6	MO	700.61	WATER QUALITY INSPECTIONS	4203.66
171-0030	500	LF	3.07	TEMPORARY SILT FENCE, TYPE C	1535.00
700-7000	1	TN	60.18	AGRICULTURAL LIME	60.18
700-7010	5	GL	21.21	LIQUID LIME	106.05
700-8000	4	TN	231.92	FERTILIZER MIXED GRADE	927.68
716-2000	500	SY	1.15	EROSION CONTROL MATS, SLOPES	575.00
Section Sub Total:					\$22,080.17

Section Erosion Control

Item Number	Quantity	Units	Unit Price	Item Description	Cost
455-0001	20	SY	3.28	FILTER FABRIC	65.60
603-2181	20	SY	26.68	STN DUMPED RIP RAP, TP 3, 18 IN	533.60
700-6910	1	AC	752.46	PERMANENT GRASSING	752.46
700-7000	1	TN	51.20	AGRICULTURAL LIME	51.20
700-7010	1	GL	19.18	LIQUID LIME	19.18
700-8000	1	TN	237.21	FERTILIZER MIXED GRADE	237.21
Section Sub Total:					\$1,659.25

Section Traffic Signals

Item Number	Quantity	Units	Unit Price	Item Description	Cost
639-4004	4	EA	4454.38	STRAIN POLE, TP IV	17817.52
647-1000	1	LS	42864.85	TRAFFIC SIGNAL INSTALLATION NO -	42864.85
Section Sub Total:					\$60,682.37

Section Signing and Striping

Item Number	Quantity	Units	Unit Price	Item Description	Cost
636-1029	9	SF	21.75	HIGHWAY SIGNS, TP 2 MATL, REFL SHEETING, TP 3	195.75
636-1030	9	SF	37.01	HIGHWAY SIGNS, TP 2 MATL, REFL SHEETING, TP 4	333.09

636-2080	56	LF	7.07	GALV STEEL POSTS, TP 8	395.92
652-0110	10	EA	37.13	PAVEMENT MARKING, ARROW, TP 1	371.30
652-5451	2540	LF	0.12	SOLID TRAFFIC STRIPE, 5 IN, WHITE	304.80
652-5452	5080	LF	0.12	SOLID TRAFFIC STRIPE, 5 IN, YELLOW	609.60
652-5701	112	LF	2.29	SOLID TRAF STRIPE, 24 IN, WHITE	256.48
652-9001	151	SY	1.48	TRAFFIC STRIPE, WHITE	223.48
652-9002	200	SY	1.08	TRAFFIC STRIPE, YELLOW	216.00
653-1804	420	LF	1.49	THERMOPLASTIC SOLID TRAF STRIPE, 8 IN, WHITE	625.80
Section Sub Total:					\$3,532.22

Total Estimated Cost: \$327,624.88

Subtotal Construction Cost	\$327,624.88
E&C Rate 10.0 %	\$32,762.49
Inflation Rate 5.0 % @ 2.0 Years	\$36,939.70
Total Construction Cost	\$397,327.07
Right Of Way	\$0.00
ReImb. Utilities	\$0.00
Grand Total Project Cost	\$397,327.07

See attached Right of Way estimate and Utility Estimate.

Inflation shall be added by the Office of Financial Management.

Preliminary Right of Way Cost Estimate

Phil Copeland
 Right of Way Administrator
 By: Jerry Milligan

Date: August 16, 2006
Project: CSSTP-0007-00(693)Screven REVISED
Existing/Required R/W: Varies/Varies
Project Termini: Signal installation on SR 21 Business @ SR 73
Project Description: Signal installation on SR 21 Business @ SR 73

P.I. Number: 0007673
No. Parcels: 3

Land: None \$ 0

Improvements : Signs 3,000

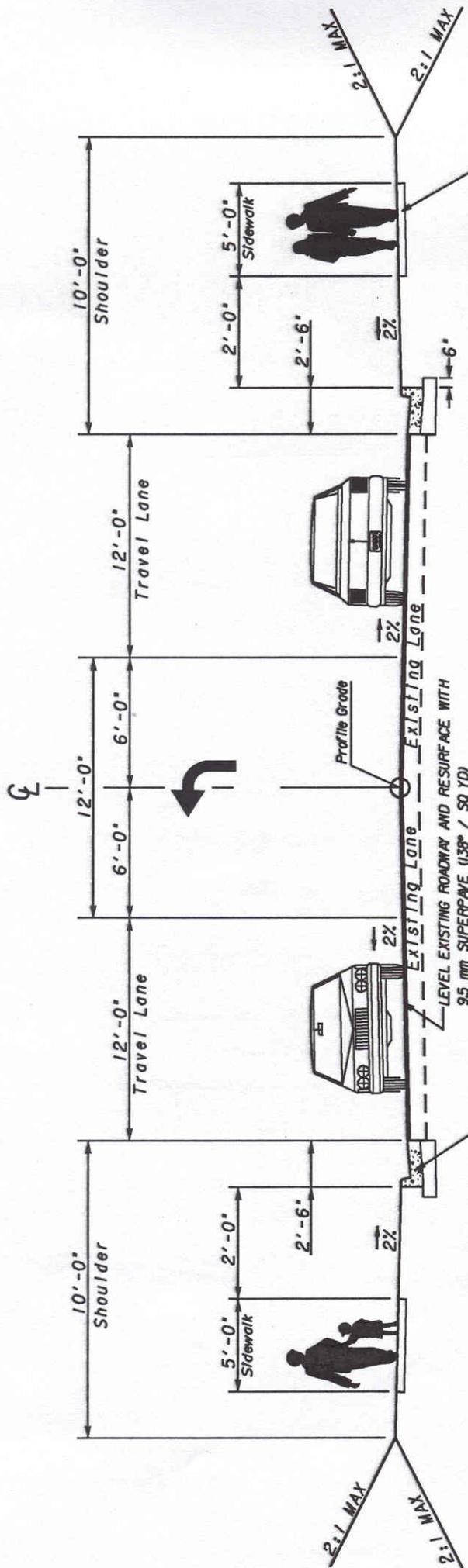
Relocation: Residential (0)
 Commercial (0) 0

Damage : None 0

Net Cost \$ 3,000

	Net Cost	\$ 3,000
	Scheduling Contingency 55 %	1,650
0	Adm/Court Cost 60 %	2,790
	Inflation Factor 40 %	2,976
		<hr/> \$ 10,416

Total Cost \$ 10,500



INSTALL SIDEWALK AND ADA RAMPS IN ACCORDANCE WITH CURRENT ADA CRITERIA

TANGENT SECTION
SR 73
SR 21 BUSINESS

REMOVE EXISTING CURB AND GUTTER AND REPLACE WITH 6' X 30' C/G, TP 2 AND REBUILD WHEELCHAIR RAMPS TO MEET CURRENT ADA REGULATIONS

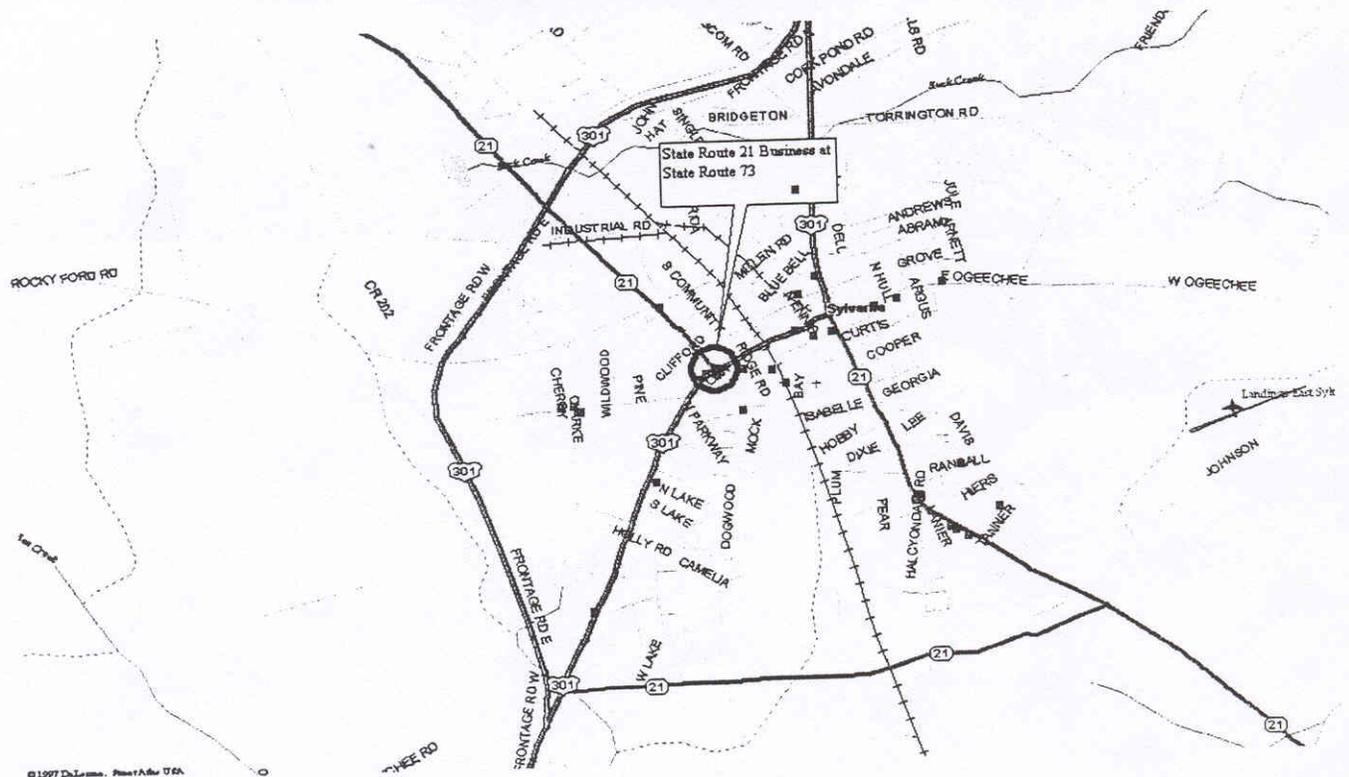
LEVEL EXISTING ROADWAY AND RESURFACE WITH 95 mm SUPERPAVE (138" / 50 YD)

Georgia Department of Transportation

TRAFFIC ENGINEERING REPORT

for the intersection of
STATE ROUTE 21 BUSINESS AT STATE ROUTE 73
CITY OF SYLVANIA - SCREVEN COUNTY

MILE LOG 1.50 (SR 21 BUS.)
MILE LOG 13.95 (SR 73)



Report prepared by:

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Date: October 21, 2003

STUDY LOCATION

State Route 21 Business at State Route 73 is located within the City of Sylvania in Screven County. State Route 73 runs in a north/south direction through the Business District of Sylvania connecting with State Route 73 (US 301) Loop just outside of the city limits on both ends of the city. State Route 21 Business begins at State Route 73 Loop at which point State Route 21 turns south and runs around the outskirts of the southern part of the city. State Route 21 Business continues in an northwest to southeast direction through the City of Sylvania .

REASON FOR INVESTIGATION

There have been frequent requests in the past to install a stop and go traffic signal at the intersection. Terminals for local fire and rescue vehicles are located on State Route 21 West, and emergency vehicles from these facilities frequently pass through the intersection when going to the central sections of town. The City of Sylvania has indicated interest in a traffic signal at this location that would provide an emergency vehicle pre-emption operation. Copies of letters of support for a signal from the local governments are attached.

It was observed during the on site investigation that some motorists were using the left turn lane on State Route 73 northbound as it were a dual two way left turn when trying to enter the driveway between Pizza Hut and Jalapenos Mexican Grill. This type of driver behavior seemed to be generating some uncertainty around the intersection.

DESCRIPTION OF INTERSECTION

This intersection is a "Y"-type intersection with State Route 21 Business approaching State Route 73 from the west. Harveys Supermarket is located in the southwest quadrant, Dairy Queen and an Exxon Service Station are located in the northwest quadrant, Jalapenos Mexican Grill and a bank are located in the southeast quadrant, and Subway/Pizza Hut and an Amoco Service Station are located in the northeast quadrant of the intersection.

State Route 21 Business (Mims Road) at this location is a two-lane section of roadway that is classified as a rural minor arterial. The eastbound approach of State Route 21 consists of a 14 foot westbound travel lane and a 14 foot eastbound approach lane with a 19 foot right turn lane separated by a large grassed channelization island. There is curb and gutter on both sides of the roadway except for the right turn lane which has a 4 foot grassed

DESCRIPTION OF INTERSECTION - continued

shoulder on the right side and an at grade grassed median on the left side. The approach grade is approximately +1.0 %. State Route 21 then runs common with State Route 73 in the north direction.

State Route 73 (West Ogeechee Street) is classified as a rural principal arterial. The northbound approach consists of an 11 foot approach lane, an 11 foot left turn lane, and an 11 foot southbound travel lane. The total pavement width is 33 feet. There is curb and gutter on both sides of this approach. The approach grade is approximately -1.0 %.

State Route 21 Business and 73 run common on the southbound approach. This approach consists of an 11 foot approach lane with a 26 foot free flowing right turn lane. There is an 11 foot northbound travel lane and an 11 foot striped out median. The approach grade is approximately +2.0 %. There is curb and gutter on both sides of this approach. The free flowing right turn lane has curb and gutter on the right and an at grade asphalt and grass channelization island on the left.

Sight distances at the intersection are as follows:

Sight distance on the northbound approach of State Route 73 looking toward the intersection is approximately 500+/- feet.

Sight distance on the southbound approach of State Route 73 looking toward the intersection is approximately 900+/- feet.

An existing conditions diagram of the intersection is attached.

EXISTING TRAFFIC CONTROLS

There are white edge lines and double yellow centerlines on all approaches to the intersection. There is a white stop bar, single indicated R1-1 stop sign, and single indicated W3-1a stop ahead sign on the eastbound State Route 21 approach. There is a grassed channelization island and a R1-2 yield sign for the free flowing right turn lane on State Route 21 eastbound. There is a striped out median on the State Route 21/73 southbound approach. There is an asphalt and grassed channelization island and R1-2 yield sign on the free flowing right turn lane on this approach.

TRAFFIC VOLUMES

YEAR	STATE ROUTE 21BUS.	STATE ROUTE 73
Special Coverage Counts 06/26/03	EB approach 5084	NB approach 5709 SB approach 6971
2002 AADT	5166 @ sta 192 west of SR 73	7837 @ sta 125 north of SR 21 4615 @ sta 123 south of SR 21
2001 AADT	4461 @ sta 192 west of SR 73	9082 @ sta 125 north of SR 21 4442 @ sta 123 south of SR 21

Copies of 24 hour special coverage counts taken June 26, 2003 and peak hour turning movement counts taken June 10, 2003 are attached. Copies of GDOT 2002 and 2001 coverage counts for Screven County are also attached.

VEHICULAR SPEEDS

The posted speed is 35 MPH on all approaches to the intersection. Through the observing of passing vehicles during the on-site investigation, it seemed likely that the 85th percentile speed around this intersection is about or slightly greater than 35 MPH.

PEDESTRIAN MOVEMENTS

Pedestrians were not observed at this intersection during the on-site investigation. Given that the intersection lies within the business district of Sylvania, some pedestrian movement around the intersection would be expected.

PARKING

There wasn't any physical evidence of vehicles parking near the intersection. No vehicles were parked near this intersection during the on-site investigation.

DELAY

A delay study was not conducted for this report. There have not been any complaints or notification of delay at this intersection prior to this study.

ACCIDENT HISTORY

Crash experience information has been compiled for this intersection using reports provided by the Sylvania Police Department and the Georgia State Patrol. The collision information includes any incident that occurred between the dates of June 1, 2002 and June 1, 2003. Nine incidents were reported at this intersection for the study period. Six injuries and no fatalities were reported. Four of the collisions were of right angle type, three were rear ends, and two were left turn collisions.

Accident listings were compiled for 1998, 2000, 2001, and 2002.

One incident in 1998 occurred with one injury and no fatalities. The incident that occurred was a rear end collision.

Five incidents in 2000 occurred with no injuries or fatalities. Four of the incidents right angle collisions and one of the incidents was a rear end collision.

Eight incidents in 2001 occurred with no injuries or fatalities. Four of the collisions were rear ends, two of the collisions were right angle types, and two of the incidents were collision that didn't involve another vehicle.

Three incidents in 2002 occurred with one injury and no fatalities. Two of the incidents were rear end collisions and one of the incidents was a right angle collision.

Copies of the accident listings and a collision diagram is attached.

ADJACENT TRAFFIC SIGNALS

There are no signalized intersections within ½ mile of this intersection.

SIGNAL WARRANT ANALYSIS

The special coverage traffic counts obtained in June 2003 were compared to signal warrant criteria found in section 4C of the Millennium Edition of the Manual on Uniform Traffic Control Devices (MUTCD). Given the geometrics of the large free-flowing right turn lanes at the intersection, all of the traffic making right turns was factored out when analyzing the traffic volumes.

The traffic volumes reported from the special coverage traffic counts were above the level at which Warrant 1- Eight Hour Vehicular Warrant, Condition A - Minimum Vehicular Volume were satisfied. The reported volumes were also above levels at which Warrant 2 - Four Hour Volume and Warrant 3 - Peak Hour were satisfied.

A copy of the Signal Warrants Summary is attached.

CONCLUSION

It is concluded that a stop and go traffic signal is warranted at this time based on current traffic volumes. It is also believed that a change in the intersection's geometry will reduce the uncertainty and help increase the safety around the intersection. State Route 21 Business eastbound should be realigned with the center driveway for Subway/Pizza Hut and Jalapenos Mexican Grill and the second drive north of Subway should be reconstructed as a right-out only driveway. Right of way control should be established in parking lots adjacent to the intersection, and construction of a right turn decel lane on the southbound approach could help enhance the efficiency of the free flowing right turn lane.

A sketch of this proposed intersection is attached.

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

DATE August 15, 2006

FROM Alan Smith, ^{DAS} District Design Engineer

TO File

SUBJECT CSSTP-0007-00 (693) - Screven County
P.I. No.: 0007693
Property Owner Meeting on 8-14-06

I attended a meeting with the City of Sylvania and the local property owners concerning the above subject project on 8-14-06. The meeting was held to discuss the scope of the above project and the right of way impacts that it would present to the surrounding businesses. The following people were present at this meeting.

Alan Smith	District Design Engineer	GDOT
Carter Crawford	City Manager	City of Sylvania
Eddie Spencer	Property Owner	Pizza Hut / Subway
Arnold Castellanos	Property Owner	Jalapeños' Restaraunt

Alan Smith opened the meeting by presenting the proposed scope of the project and the need and purpose of the project. Property owner Eddie Spencer then voiced his concerns with how the project will affect his property. His concerns were with his current parking configuration and the alley between his business and the Jalapeños' Restaurant next door. He stated by re-arranging the drives in front, it would cause traffic to back up in his parking lot. He then made some suggestions that would lessen this impact. The eastern right out only drive could be shifted to the property line to provide an easier egress from the property. He also stated that if a designated "lane" could be striped through the parking area between the 2 businesses and marked "No-Parking" that it could be kept clear and facilitate traffic movement. Alan Smith then agreed that if the property owners gave easements to do this that it could be done with the project but the maintenance of these stripes would be the property owner's responsibility. Then, property owner Arnold Catellonos said that he thought the project would be a great benefit to them and was in agreement with the plan. Carter Crawford with the City of Sylvania agreed that they will help to facilitate the project if the property owners were willing to donate the necessary easements to construct their drives. Both parties agreed to donate the easements as long as they were temporary. It was agreed by all in attendance that the Department of Transportation may procede with the Project Concept Report.

If any further assistance is needed, please contact Alan Smith at (478) 552-4642.

DAS:
cc: Kathy Bailey