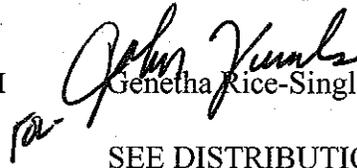


**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

FILE P. I. No. 662650-, Cherokee County **OFFICE** Preconstruction
STP00-0012-01(112)
SR 20 @ SR 108 & CR 17/White Road-
Intersection Improvements **DATE** September 8, 2008

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.

Attachment

DISTRIBUTION:

Brian Summers
Glenn Bowman
Ken Thompson
Michael Henry
Keith Golden
Kent Sager
Paul Liles
Dewayne Comer
David Moore
BOARD MEMBER

7

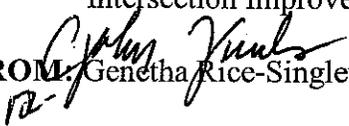
**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENTAL CORRESPONDENCE

FILE: P.I. No. 662650-, Cherokee County
STP00-0012-01(112)
SR 20 @ SR 108 & CR 17/White Road-
Intersection Improvements

OFFICE: Preconstruction

DATE: August 11, 2008


FROM: Genetha Rice-Singleton, Assistant Director of Preconstruction

TO: Gerald M. Ross, P.E., Chief Engineer

SUBJECT: PROJECT CONCEPT REPORT

This project is the SR 20/Knox Highway, SR 108 and CR 17/White Road intersection improvements near Canton, Cherokee County, Georgia. Currently, SR 20 has a free flow movement at the intersection, and SR 108/CR653 Sweetwater Trail operates under a two-way stop condition. CR 17/White Road adds a fifth leg to the intersection and intersects SR 108 and SR 20 at a stop condition at an undesirable skew angle which contributes to poor sight distance and undesirable turning movements. This intersection will experience increasing congestion and potential for accidents as the area grows in population and traffic with numerous subdivisions being constructed. The majority of the crashes (60%) occurred along SR 20 at the intersection with SR 108 and was classified as "angle" and "rear end" crashes indicating operational issues. The existing 2006 Average Daily Traffic (ADT) of 12,600 vehicles per day (VPD) on SR 20 within the project area is projected to increase to 16,550 by the build year 2013. This volume is projected to increase to 24,600 VPD by 2033.

The proposed project will remove the CR 17/White Road leg of the existing five-legged intersection to create a four-legged intersection that is ADA compliant and with a better intersection (skew) angle. The project includes adding 250' left and right turns lanes to all approaches, and improving site distance by correcting several insufficient vertical curves. The project will relocate access to CR 17/White Road from this intersection. CR 17/White Road and Carmel Church Road will be realigned to intersect SR 108 north of the SR 108 and SR 20 intersection. A traffic signal will be installed at the SR 108 and SR 20 intersection. Traffic will be maintained during construction.

Environmental concerns include requiring a COE 404 permit; this project is located along Lake Allatoona Wildlife Management Area; there is a potential for Section 4(f); a Categorical Exclusion is anticipated; a Public hearing is not required; Time saving procedures is appropriate.

P.I. No. 662650-, Cherokee County
Page 2
August 11, 2008

The estimated costs for this project are:

	<u>PROPOSED</u>	<u>APPROVED</u>	<u>FUNDING</u>	<u>PROG DATE</u>
Construction (includes E&C)	\$ 1,432,000	\$ 1,184,000	LS30	Lump
Right-of-way	\$ 3,819,000	\$ 100,000	LS30	Lump
Utilities	\$188,000			

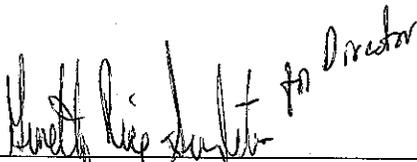
* Notification Letter sent to Cherokee County on 4-21-2005.

I recommend this project concept be approved.

GRS: JDQ

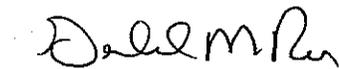
Attachment

CONCUR


Director

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

APPROVED


Gerald M. Ross, P.E., Chief Engineer

PRECONSTRUCTION STATUS REPORT FOR PROJECT MANAGER Comer, DeWayne

PROJ ID: 662650-
COUNTY: Cherokee
LENGTH: 0.20
MGR NO.: STP00-0012-01(112)
PROJ MGR: Comer, DeWayne
OFFICE: District 6
CONSULTANT: No Consultant, GDOT In-House Design
SPONSOR: Cherokee County
DESIGN FIRM:

SR 20 @ SR 108; CR 17/WHITE RD & CR 13/MT CARMEL LANE
MPO: Atlanta TMA
TIP #: CH-209
NETWORK YR: 2020
TYPE WORK: Intersection Improvement
PROG TYPE: Safety
CONCEPT:
BOND PROJ:

DOT DIST: 6
CONG. DIST: 6
BIKE: N
MEASURE:
UTILITY EST: \$ 0.00
CST EST. DATE: 11/15/2007
RW EST. DATE: 11/24/2003

MGMT LET DATE: Dec-09
MGMT ROW DATE: 19-Dec-08
SCHED LET DATE: Oct-11
WHO LETS?: GDOT Let
LET WITH:

AUTHORIZED FUNDS
 PE Authorized Amt: \$100,000.00
 ROW Authorized Amt:
 CST Authorized Amt:

BRIDGE SUFF RTG:
 Date: 11/17/2005
 Date:
 Date:

Sched Start	Sched Finish	Activity	Actual Start	Actual Finish	%
8/25/2008	2/19/2009	Define Project Concept	1/15/2006		84
2/20/2009	2/20/2009	Concept Meeting			0
3/6/2009	3/6/2009	PM Submit Concept Report			0
3/9/2009	3/20/2009	Receive Preconstruction Concept Approval			0
3/20/2009	3/20/2009	Management Concept Approval Complete			0
4/6/2009	4/6/2009	Public Information Open House Held			0
3/23/2009	12/25/2009	Environmental Approval			0
5/11/2009	5/29/2009	Mapping			0
8/25/2008	1/23/2009	Field Surveys/SDE	7/27/2006	10/17/2006	100
3/23/2009	7/24/2009	Preliminary Plans	2/14/2008		14
5/4/2009	7/17/2009	Underground Storage Tanks	4/16/2008		100
1/18/2010	1/19/2010	404 Permit Obtainment			0
1/20/2010	5/11/2010	PFPR Inspection			0
5/12/2010	6/14/2010	R/W Plans Preparation			0
2/25/2010	3/1/2010	R/W Plans Final Approval			0
6/15/2010	8/10/2011	L & D Approval			0
8/25/2008	8/26/2009	R/W Acquisition			0
3/2/2010	3/29/2011	Soil Survey			0
4/20/2011	4/21/2011	Final Design			0
5/5/2011	5/18/2011	FFPR Inspection			0
		Submit FFPR Responses (OES)			0

PDD: LR MARCH 99: ASSIGNED DISTRICT 6 ON 3/26/1999. AT NEW VET CEMETERY - NOT NEEDED? 9/13/00
Bridge: NO BRIDGE REQUIRED
Design: JMC:sk
EIS: LC | GB
LGPA: NOTIFICATION LETTER SENT TO CHEROKEE 4-21-05.
Traffic Op: GW:am>BC=1.73 7/08-SEND PLANS FOR S&M WHEN 50% COMPL 4/15/99

Status Meeting Notes
 Concept _____ Pavement Design
 Env _____
 R/W Plans _____ Bridge Plans
 Utility Plans _____
 Soils/BFI _____ SM&S
 Comments:

PREL. PARCEL CT: 31 **TOTAL PARCELS IN ROW SYSTEM:** **ACQ BY:** DOT **MGR:**
UNDER-REVIEW: **RELEASED:** **OPT-PEND:** **COND-PEND:** **COND-FILED:** **RELOC:** **ACQUIRED:**

ROW Approved: LUMP Proposed: LUMP
CST Approved: LUMP Proposed: LUMP

PROGRAMMED FUNDS
 Approved: LUMP Proposed: LUMP 100,000.00 LS30 PRECST
 Approved: LUMP Proposed: LUMP 1,184,000.00 LS30 PRECST

District Comments Needs Score: 07 H

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

District 6

PROJECT CONCEPT REPORT

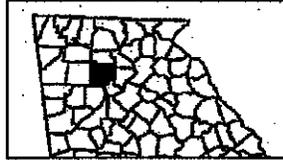
Project Number: STP 012-1(112)

County: Cherokee

P. I. Number: 662650

Federal Route Number: N/A

State Route Number: 20 & 108



Recommendation for approval:

DATE June 11, 2008

Curt Q. Comer

Project Manager

DATE 6/11/2008

Phil [Signature]

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 7/7/08

Angela S. Aleph

State Transportation Planning Administrator

DATE _____

State Transportation Financial Management Administrator

DATE _____

State Environmental/Location Engineer

DATE _____

State Traffic Safety & Design Engineer

DATE _____

Project Review Engineer.

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

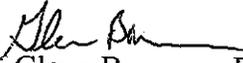
INTERDEPARTMENT CORRESPONDENCE

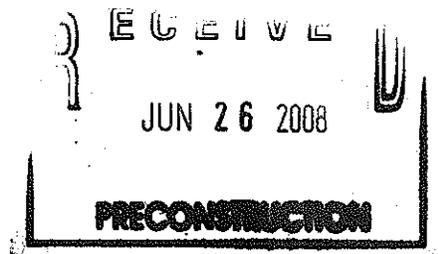
FILE: P.I. No. 662650

OFFICE: Environment/Location

PROJECT No. STP-012-1(112) / CHEROKEE County DATE: 6/25/08

SR 20 @ SR 108 & CR 17/White Road

FROM: 
Glenn Bowman, P.E., State Environmental/Location Engineer
TO: Genetha Rice-Singleton, Assistant Director of Preconstruction
SUBJECT: PROJECT CONCEPT REPORT REVIEW



The Concept Report for the above project has been reviewed and appears satisfactory subject to the following comment:

1. The project is located in a Wildlife Management Area(WMA). There is potential for Section 4(f) as many WMA's have been determined to be Section 4(f) resources and this project will require between 60 and 80 feet of additional right-of-way.

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

GB:lc

cc: Brian Summers
Jamie Simpson
Keith Golden
Angela Alexander
Kent Sager

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

District 6

PROJECT CONCEPT REPORT

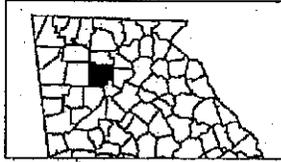
Project Number: STP 012-1(112)

County: Cherokee

P. I. Number: 662650

Federal Route Number: N/A

State Route Number: 20 & 108



Recommendation for approval:

DATE June 11, 2008

Curt Q. Comer

Project Manager

DATE 6/11/2008

Mark J. Seay

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 Financial Management Administrator

DATE 6/25/08

John Bowman
State Environmental/Location Engineer

DATE _____

State Traffic Safety & Design Engineer

DATE _____

Project Review Engineer.

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

District 6

PROJECT CONCEPT REPORT

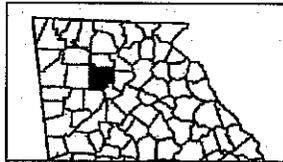
Project Number: STP 012-1(112)

County: Cherokee

P. I. Number: 662650

Federal Route Number: N/A

State Route Number: 20 & 108



Recommendation for approval:

DATE June 11, 2008

Curt Q. Comer

Project Manager

DATE 6/11/2008

[Signature]
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 Financial Management Administrator

DATE _____

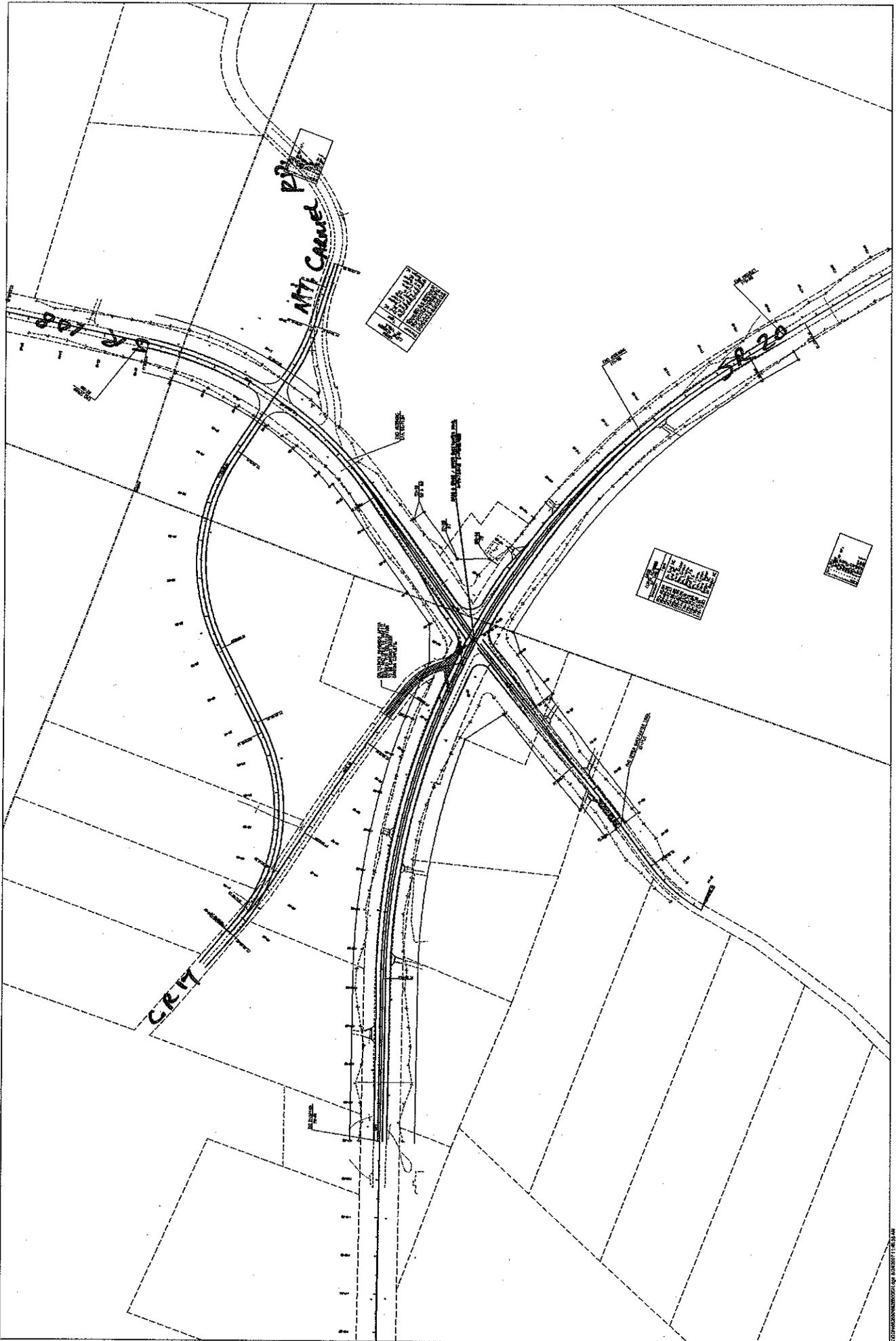
State Environmental/Location Engineer

DATE _____

State Traffic Safety & Design Engineer

DATE _____

Project Review Engineer.



Project Concept Report page 4
 Project Number: STP 012-1(112)
 P. I. Number: 662650
 County: Cherokee

- 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). **The first 0.17 miles (MP 0.00-0.17) of CR 17/White Rd will be relocated adding about .013 miles to the total length.**

Proposed Design Features:

- Proposed typical section(s):
 - SR 20 @ SR 108: 2-12 ft lanes with 2-12 ft left turn lanes, 2-12 ft right turn lanes and 10 foot shoulders.**
 - SR 108: 2-12 ft lane with 1-12 ft left turn lane, 1-12 ft right turn lane and 10 foot shoulders.**
 - Upper Sweetwater: 2-12 ft lane with 1-12 ft left turn lane, 1-12 ft right turn lane and 8 foot shoulders.**
- Proposed Design Speed Mainline **55** mph
- Proposed Maximum grade Mainline: **6** % Maximum grade allowable **6** %.
- Proposed Maximum grade Side Street **10**% Maximum grade allowable **10**%.
- Proposed Maximum grade driveway: **12**%
- Proposed Minimum radius for curve: **960** Maximum radius allowable: **960**
- Proposed Maximum super-elevation rate for curve: **8.0**%
- Proposed Maximum degree of curve **6** Maximum degree allowable **6**
- Right of way
 - Width **140'-160'**.
 - Easements: Temporary (**X**), Permanent (**X**), Utility (), Other ().
 - Type of access control: Full (), Partial (), By Permit (**X**), Other ().
 - Number of parcels: **16** Number of displacements: **None Anticipated**
- Structures: **None**
- Major intersections and interchanges: **SR 20 @ SR 108**
- Traffic control during construction: **Traffic to be maintained during construction.**
- 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)

Project Concept Report page 5
Project Number: STP 012-1(112)
P. I. Number: 662650
County: Cherokee

- Design Variances: **None Anticipated.**
- Environmental concerns: **None at this time.**
- Level of environmental analysis:
 - Are Time Savings Procedures appropriate? Yes (**X**), No (),
 - Categorical exclusion (**X**),
 - Environmental Assessment/Finding of No Significant Impact (FONSI) (), or
 - Environmental Impact Statement (EIS) ().
- Utility involvements: *see attachment*

V.E. Study Required: Yes () No (**X**)

Project responsibilities:

- Design, **GDOT**
- Right of Way Acquisition, **GDOT**
- Relocation of Utilities, **GDOT**
- Letting to contract, **GDOT**
- Supervision of construction, **GDOT**
- Providing material pits, **Contractor**
- Providing detours. **GDOT**

Coordination

- Initial Concept Meeting date and brief summary. Attach minutes.
- Concept meeting date and brief summary. Attach minutes.
- P. A. R. meetings, dates and results.
- FEMA, USCG, and/or TVA
- Other projects in the area. **PI 0007836 SR 20 from I-75/Bartow to I-575/Cherokee.**
Project is in LR.
- Other coordination to date.

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: **3** Months.
- Time to complete the Section 404 Permit: **12** Months.
- Time to complete final construction plans: **6** Months.
- Time to complete to purchase right of way: **9** Months.
- List other major items that will affect the project schedule: **None Anticipated.**

Project Concept Report page 6
Project Number: STP 012-1(112)
P. I. Number: 662650
County: Cherokee

Other alternates considered: Close White Road rather than relocate.

Attachments:

1. Need and Purpose
2. Cost Estimates:
 - a. Construction including E&C,
 - b. Right of Way, and
 - c. Utilities.
3. Sketch location map,
4. Typical section,
5. Projected traffic,
6. Signal warrant,
7. B/C Ratio
8. Location and Design Notice

Need and Purpose
SR 20 @ SR 108; CR 17/White Road & CR 13/Mt. Carmel Lane
STP-012-1(112), PI # 662650, ARC # CH-209 - Cherokee County

Background

The Atlanta Regional Commission (ARC) adopted the Mobility 2030 Regional Transportation Plan (RTP) for the 13-county Atlanta Metropolitan area in December 2004. The Plan addresses travel needs through the year 2030. The RTP is the direct result of a comprehensive, cooperative, and continuous planning process conducted by ARC, local governments and the Georgia Department of Transportation in cooperation with the Federal Highway and Federal Transit Administrations. The proposed project is recommended in the TIP/RTP (CH 209) with construction scheduled in 2009.

State Route 20 in Cherokee County is a major route and serves as a major east-west corridor in the state, connecting several counties. In the area of the proposed project, SR 20 is functionally classified as an urban principal arterial and is a designated school bus route. The existing road in this area has a two lane rural typical section with a posted speed limit of 55 MPH. SR 20 is not on a state or local bike route.

The proposed project would improve the intersection along SR 20 at SR 108 by adding left and right turn lanes on both routes and a traffic signal. Left and right turn lanes would be also added on Upper Sweetwater Trail. The project proposes to relocate access to White Road. The sight distance along SR 20 would be also improved by correcting substandard vertical geometry. The proposed project would begin just west of SR 108 (MP 2.00) and end just east of SR 108 (MP 2.35). The total length of the proposed project is 0.35 miles.

Projects in the area

There is one project in the area, which would not impact the construction of the proposed project:

- SR 20 widening from 2 existing lanes to 4 lanes, from I-75 in Bartow County to I-575 in Cherokee County, PI 0007836, with CST in LR.

Logical Termini

The termini for this project are logical due to the project having independent utility and not having an adverse effect on the operational conditions along SR 20. The proposed project would improve safety and traffic operations in this area.

Traffic Information

The existing traffic (2006) along this section of SR 20 is 12,600 AADT with 5% truck traffic, resulting in a LOS D at the intersection with SR 108. The 2033 No-Build

projected traffic is ^{24,600}~~24,000~~ AADT and the LOS along SR 20 at SR 108 would result in a LOS F.

Community issues

Cherokee County is part of the Atlanta metropolitan area and is a rapidly growing residential area. The 2000 Census listed the population in Cherokee County as 141,903. During the 1990 Census year, Cherokee County had a population of 90,204. Between 1990 and 2000, Cherokee County gained 51,699 residents, a 57.3 percent increase which ranked second in the region with a growth rate of 5.21 percent. The 2010 population projection for Cherokee County is 194,017.

The proposed project is located in Census Tracts 902 and 903. Based on the 2000 Census, the population consists of 3.3% minorities compared with a 10.1% minority population for Cherokee County. Nearly 6.6% of the residents in Census Tracts 902 and 903 lived below the poverty level as compared to 5.3% at the county level.

Safety

The following table compares the crash, injury and fatality rates along SR 20, to the statewide average for a similar classified facility. The 2003, 2004 and 2005 crash and injury rates along the proposed project were below the statewide average for a road of this type. However, there is a slight increase in the crash rate since 2003. The majority of the crashes (60%) occurred along SR 20 at the intersection with SR 108 and were classified as 'angle' and 'rear end' crashes indicating operational issues. The fatality rates in 2003 and 2005 exceeded approximately ten times the statewide average for a similar road facility. One fatality occurred in 2003 along SR 20 at MP 0.89, approximately 0.1 miles west of Mt.Olive Church Road, and one fatality occurred in 2005 along SR 20 at MP 2.16, the intersection with SR 108.

SR 20, Cherokee County – Urban Principal Arterial

Rates	2003	Statewide 2003	2004	Statewide 2004	2005	Statewide 2005
Crash Rate	148	775	150	637	213	727
Injury Rate	56	195	0	159	159	179
Fatality Rate	18.54	1.72	0	1.31	17.72	1.87

Need and Purpose

The need for the proposed project is to help reduce the incidence of angle and rear end crashes as well as improve the travel operations at each intersection. The purpose of the proposed project is to provide a safer driving environment and improve operations in this area.

PRELIMINARY COST ESTIMATE

DATE: 20-Mar-08
PROJECT: STP-012-1(112)
P.I. NO.: 662650

DESCRIPTION: SR20 @ SR108

PROPOSED CONCEPT: Intersection Improvements

EXISTING ROAD: 2 - 12 foot lanes with 10 foot shoulders with Center Left Turns

TRAFFIC: (2008) Existing: 2 (2028) Design: 8000

PROGRAMMING PROCESS CONCEPT DEVELOPMENT DURING PROJECT DEVELOPMENT

PROJECT COST

A. RIGHT OF WAY

1. PROPERTY (Land and Easements)	\$800,000.00
2. DISPLACEMENTS	\$0.00
3. DAMAGES	\$300,000.00
3. OTHER COSTS	\$2,719,200.00
SUBTOTAL:	\$3,819,200.00

B. REIMBURSABLE UTILITIES

1. RAILROAD	
2. TRANSMISSION LINES	
3. SERVICES	\$187,700.00
SUBTOTAL:	\$187,700.00

C. MAJOR STRUCTURES

1. WALLS	\$0.00
2. BRIDGE STREAM CROSSINGS	\$0.00
3. BRIDGE OVER/UNDERPASS	\$0.00

4. BOX CULVERTS					\$0.00
				SUBTOTAL:	\$0.00
 D. GRADING AND DRAINAGE					
1. EARTHWORK					\$240,000.00
	30000	Cu Yds @	\$8.00		
2. DRAINAGE					
a. Cross drain pipes (exc. Box culverts)					\$12,400.00
	200'	of 24" cross drain pipe, 4 end sections (24") & Man Hole			
b. Curb & Gutter					\$0.00
		(Including median)			
c. Longitudinal System (incl. Catch Basins)					\$0.00
				SUBTOTAL:	\$252,400.00
 E. BASE AND PAVING					
1. AGGREGATE BASE					\$300,000.00
	appx. 10000	tons @	\$30.00	/ ton	
2. ASPHALT PAVING					\$350,000.00
	appx. 7000	tons @	\$50.00	/ ton	
3. CONCRETE PAVING					\$0.00
4. OTHER					\$15,000.00
				SUBTOTAL:	\$665,000.00
 F. LUMP ITEMS					
1. TRAFFIC CONTROL					\$50,000.00
2. CLEARING AND GRUBBING					\$130,000.00
	appx. 26	acres @	\$5,000.00	/ acre	
3. LANDSCAPING					\$5,000.00
4. EROSION CONTROL					\$50,000.00
5. DETOURS (Incl. Temp. Bridges)					\$0.00
				SUBTOTAL:	\$235,000.00
 G. MISCELLANEOUS					
1. TRAFFIC SIGNAL					\$75,000.00
2. SIGNING - STRIPING					\$25,000.00
3. GUARDRAIL					\$0.00

4. OTHER

\$10,000.00

SUBTOTAL: \$110,000.00

H. SPECIAL FEATURES

SUBTOTAL: \$0.00

ESTIMATE SUMMARY

A. RIGHT OF WAY

\$3,819,200.00

B. REIMBURSABLE UTILITIES

\$187,700.00

CONSTRUCTION COST SUMMARY

C. MAJOR STRUCTURES

\$0.00

D. GRADING AND DRAINAGE

\$252,400.00

E. BASE AND PAVING

\$665,000.00

F. LUMP ITEMS

\$235,000.00

G. MISCELLANEOUS

\$110,000.00

H. SPECIAL FEATURES

\$0.00

SUBTOTAL CONSTRUCTION COST

\$1,262,400.00

ENGINEERING @ 5%
~~E & C (10%)~~

63,120
~~\$126,240.00~~

Contingency @ 8%
~~INFLATION (5% PER YEAR FOR 2 YEARS)~~

106,041
~~\$0.00~~

TOTAL CONSTRUCTION COST

1,431,561
~~\$1,262,400.00~~

GRAND TOTAL COST

~~\$5,225,440.00~~
\$5,438,461

APP
7/2/08

Preliminary Right of Way Cost Estimate

Date: February 28, 2008
 Project: STP-012-1(112) Cherokee County P.I. Number: 662650
 Existing/Required R/W: No. Parcels: 21 +/-
 Project Termini: 151+00 to 176+00
 Project Description: SR 20 @ SR 108; CR 17/White Rd. & CR 13/Mt. Carmel Lane

Land:

Commercial
 ac @ \$/ac = \$
 Residential
 ac @ \$/ac = \$
 Residential
 ac @ \$/ac = \$ 800,000
 \$ 800,000

Improvements:

__ businesses, __ houses, __ mobile homes, curbing,
 paving, signs, fencing and site improvements
 \$

Relocation:

__ Commercial @ \$ 25,000 / parcel = \$
 __ Residential @ \$ 20,000 / parcel = \$
 \$

Damages:

Proximity - Parcels \$
 Consequential - Parcels \$ 300,000
 Cost To Cure - Parcels \$
 \$ 300,000

Net Cost		\$ 1,100,000
Scheduling Contingency	55 %	\$ 605,000
Sub-Total		\$ 1,705,000
Adm/Court Cost	60 %	\$ 1,023,000
Sub-Total		\$ 2,728,000
Inflation Factor	40 %	\$ 1,091,200
		<u>\$ 3,819,200</u>

Total Cost \$3,819,200

Prepared By: Richard Beck Approved: Gray R. Miller Reviewed
 Note: Estimate accuracy is sole responsibility of preparer. GDOT R/W

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

FILE SR 20 @ SR 108
Cherokee County

OFFICE Cartersville

FROM Kerry D. Bonner
District Utilities Engineer

DATE October 17, 2007

TO DeWayne Comer
District Pre Construction Engineer

ATTN Joe Ciavarro

SUBJECT PRELIMINARY UTILITY COST ESTIMATE

As requested by your office, we are furnishing you with a Preliminary Utility Cost estimates for each utility with facilities potentially located within the project limits.

FACILITY OWNER	NON-REIMBURSABLE	REIMBURSABLE	LOCAL GOVT. COST
Amicalola EMC	\$63,000.00		
Windstream	\$62,700.00		
Comcast	\$62,000.00		
Totals	\$187,700.00		

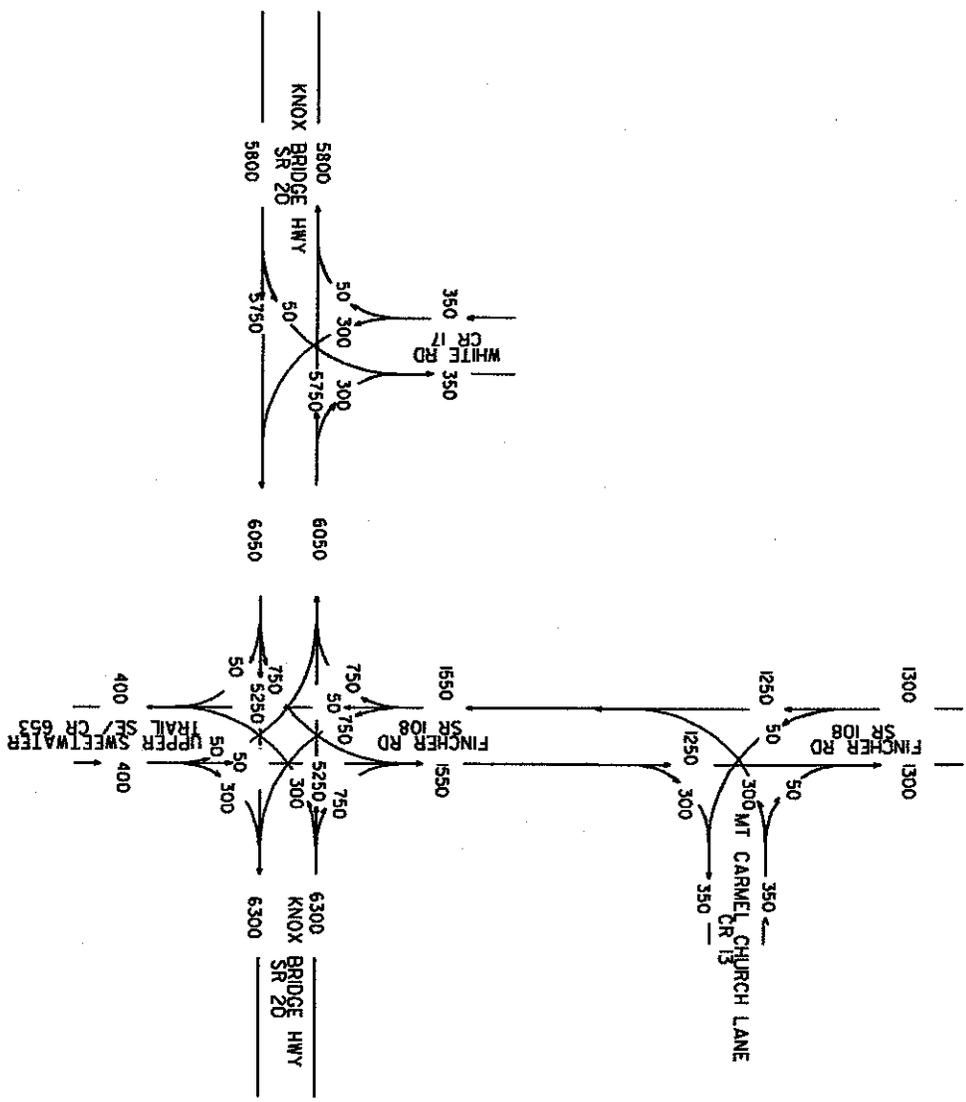
Total Preliminary Utility Cost Estimate \$187,700.00

If you have any questions, please contact Stanley Horton at 770-387-3616.

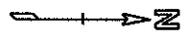
KDB/lsh

C: Jeff Baker, P. E., State Utilities Engineer
Mike Thomason, Area Engineer
File/Estimating Book

GEORGIA DEPARTMENT OF TRANSPORTATION
OFFICE OF ENVIRONMENT/LOCATION

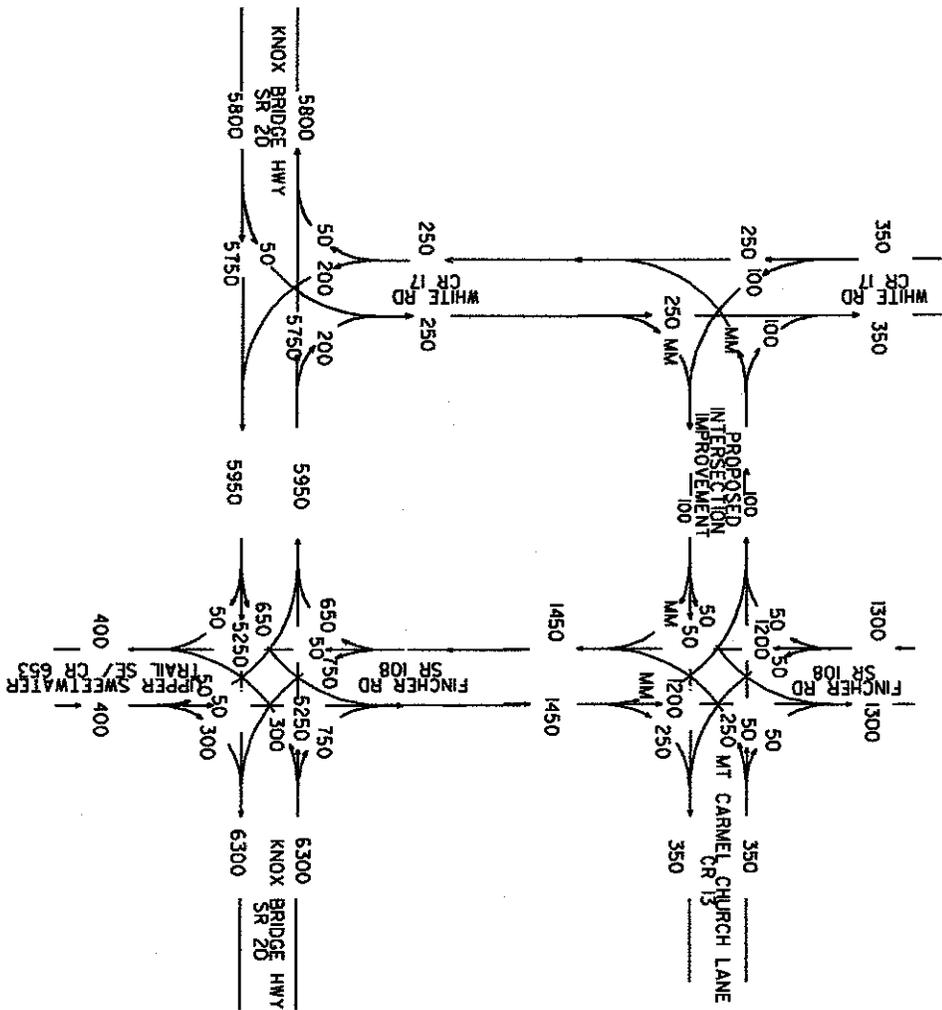


CHEROKEE COUNTY

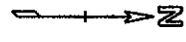


STP-012-111(2)
P.L. # 662650
CHEROKEE COUNTY
SR 20 @ SR 108;
CR 17/WHITE RD &
CR 13/MT CARMEL
LANE
2006 EXISTING

GEORGIA DEPARTMENT OF TRANSPORTATION
OFFICE OF ENVIRONMENT/LOCATION

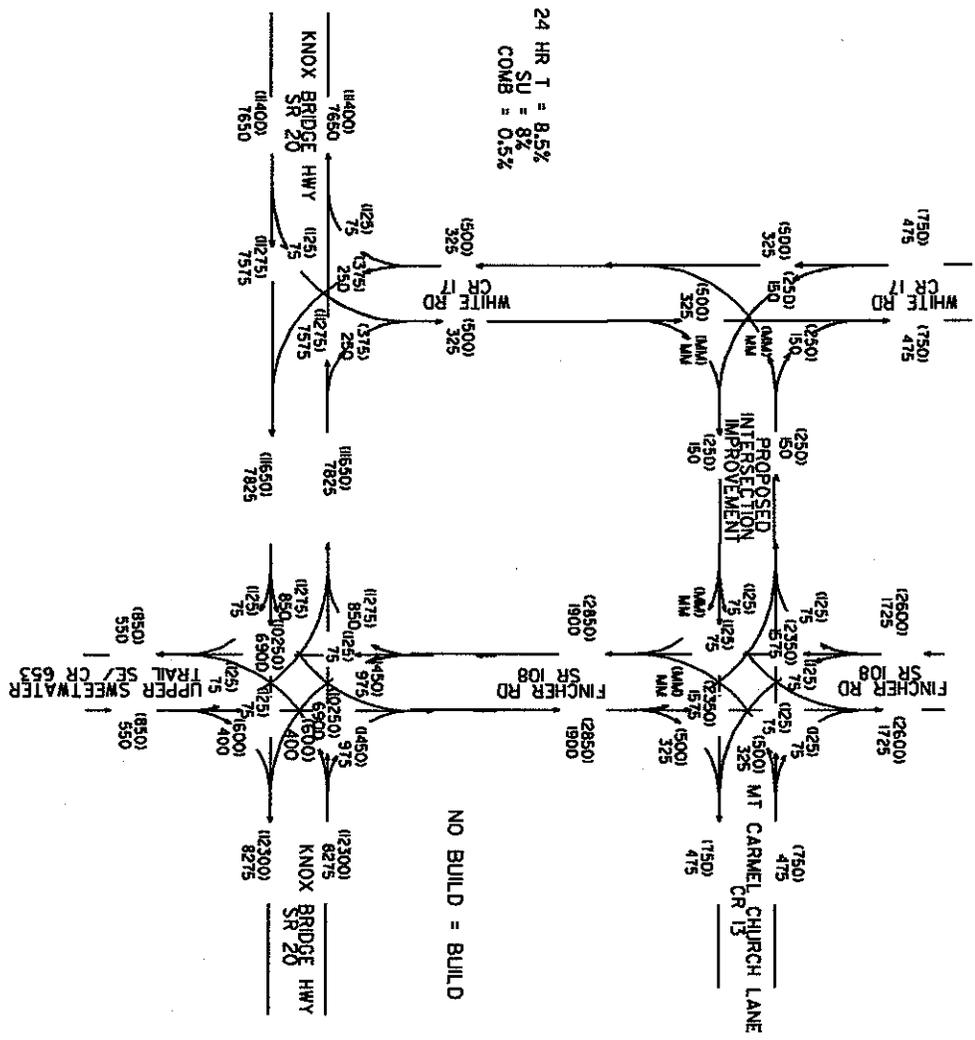


CHEROKEE COUNTY



STP-02-11(2)
P.L. # 662650
CHEROKEE COUNTY
SR 20 @ SR 108;
CR 17/WHITE RD &
CR 13/MT CARMEL
LANE
2006 EXISTING WITH
PROPOSED IMPROVEMENT

GEORGIA DEPARTMENT OF TRANSPORTATION
OFFICE OF ENVIRONMENT/LOCATION



S1P-D12-11121
P.L. # 662650
CHEROKEE COUNTY
SR 20 @ SR 108;
CR 17/WHITE RD &
CR 13/MT CARMEL
LANE
2033 ADT = 1000
2015 ADT = 000

Georgia Department of Transportation
Signal Warrants Evaluation

Study Name : 20@108 2005
Study Date : 08/10/05
Page No. : 1

Signal Warrants - Summary

Major Street Approaches

Eastbound: SR 20
Number of Lanes: 1
Approach Speed: 55
Total Approach Volume: 3,296

Westbound: SR 20
Number of Lanes: 1
Approach Speed: 55
Total Approach Volume: 3,944

Minor Street Approaches

Northbound: U. Sweetwater
Number of Lanes: 1
Total Approach Volume: 93

Southbound: SR 108
Number of Lanes: 1
Total Approach Volume: 1,036

Warrant Summary (Rural values apply.)

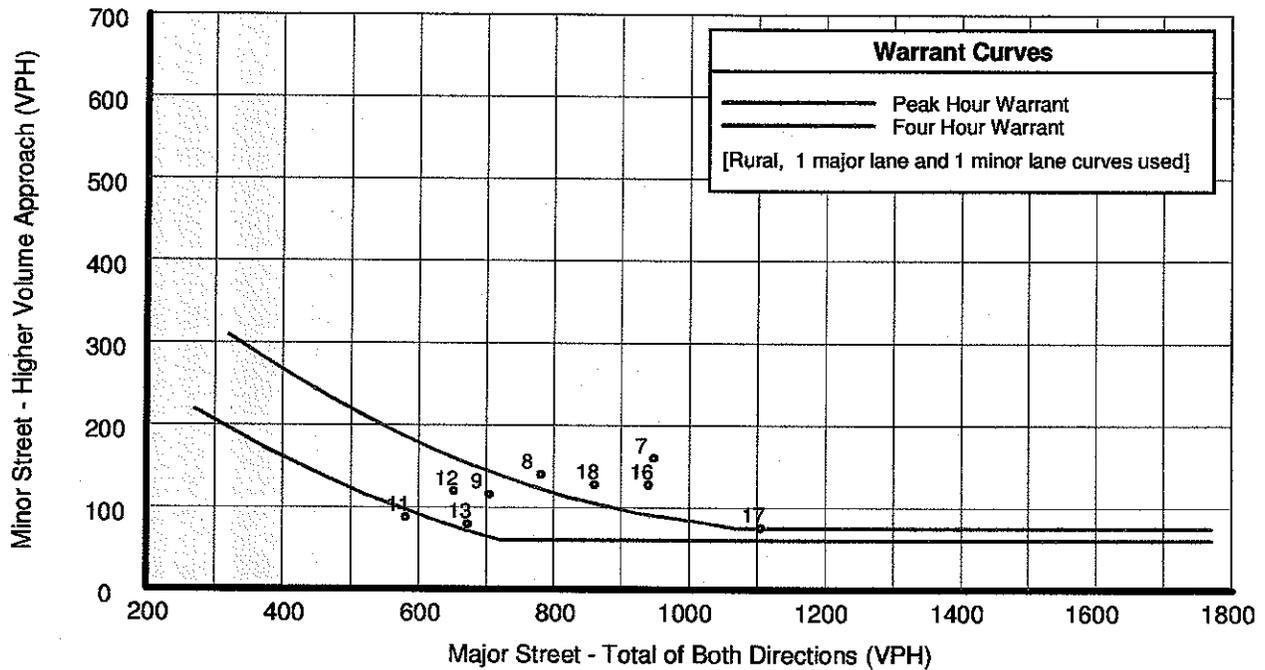
- | | |
|--|----------------------|
| Warrant 1 - Eight Hour Vehicular Volumes | Satisfied |
| Warrant 1A - Minimum Vehicular Volume Not Satisfied | |
| Required volumes reached for 6 hours, 8 are needed | |
| Warrant 1B - Interruption of Continuous Traffic Satisfied | |
| Required volumes reached for 9 hours, 8 are needed | |
| Warrant 1 A&B - Combination of Warrants Not Satisfied | |
| Required volumes reached for 7 hours, 8 are needed | |
| | |
| Warrant 2 - Four Hour Volumes | Satisfied |
| Number of hours (8) volumes exceed minimum >= minimum required (4). | |
| | |
| Warrant 3 - Peak Hour | Satisfied |
| Warrant 3A - Peak Hour Volumes Satisfied | |
| Volumes exceed minimums for at least one hour. | |
| Warrant 3B - Peak Hour Delay Not Satisfied | |
| Total approach volumes and delays on minor street do not exceed minimums for any hour. | |
| | |
| Warrant 4 - Pedestrian Volumes | Not Satisfied |
| Required 4 Hr pedestrian volume reached for 0 hour(s) and the single hour volume for 0 hour(s) | |
| | |
| Warrant 5 - School Crossing | Not Satisfied |
| Number of gaps > .0 seconds (0) exceeds the number of minutes in the crossing period (0). | |
| | |
| Warrant 6 - Coordinated Signal System | Not Satisfied |
| No adjacent coordinated signals are present | |
| | |
| Warrant 7 - Crash Experience | Not Satisfied |
| Number of accidents (-1) is less than minimum (5). Volume minimums are met. | |
| | |
| Warrant 8 - Roadway Network | Satisfied |
| Major Route conditions met. Volume requirements met. | |

Georgia Department of Transportation

Signal Warrants Evaluation

Study Name : 20@108 2005
 Study Date : 08/10/05
 Page No. : 2

Signal Warrants - Summary



Analysis of 8-Hour Volume Warrants:

Hour Begin	Major Total	Higher Minor		War-1A			War-1B			War-1A&B		
		Vol	Dir	Major Crit	Minor Crit	Meets?	Major Crit	Minor Crit	Meets?	Major Crit	Minor Crit	Meets?
00:00	0	0	NB	350-No	105-No	—	525-No	52-No	—	420-No	84-No	—
01:00	0	0	NB	350-No	105-No	—	525-No	52-No	—	420-No	84-No	—
02:00	0	0	NB	350-No	105-No	—	525-No	52-No	—	420-No	84-No	—
03:00	0	0	NB	350-No	105-No	—	525-No	52-No	—	420-No	84-No	—
04:00	0	0	NB	350-No	105-No	—	525-No	52-No	—	420-No	84-No	—
05:00	0	0	NB	350-No	105-No	—	525-No	52-No	—	420-No	84-No	—
06:00	0	0	NB	350-No	105-No	—	525-No	52-No	—	420-No	84-No	—
07:00	948	160	SB	350-Yes	105-Yes	Both	525-Yes	52-Yes	Both	420-Yes	84-Yes	Both
08:00	780	140	SB	350-Yes	105-Yes	Both	525-Yes	52-Yes	Both	420-Yes	84-Yes	Both
09:00	704	116	SB	350-Yes	105-Yes	Both	525-Yes	52-Yes	Both	420-Yes	84-Yes	Both
10:00	0	0	NB	350-No	105-No	—	525-No	52-No	—	420-No	84-No	—
11:00	580	88	SB	350-Yes	105-No	Major	525-Yes	52-Yes	Both	420-Yes	84-Yes	Both
12:00	652	120	SB	350-Yes	105-Yes	Both	525-Yes	52-Yes	Both	420-Yes	84-Yes	Both
13:00	672	80	SB	350-Yes	105-No	Major	525-Yes	52-Yes	Both	420-Yes	84-No	Major
14:00	0	0	NB	350-No	105-No	—	525-No	52-No	—	420-No	84-No	—
15:00	0	0	NB	350-No	105-No	—	525-No	52-No	—	420-No	84-No	—
16:00	940	128	SB	350-Yes	105-Yes	Both	525-Yes	52-Yes	Both	420-Yes	84-Yes	Both
17:00	1,104	76	SB	350-Yes	105-No	Major	525-Yes	52-Yes	Both	420-Yes	84-No	Major
18:00	860	128	SB	350-Yes	105-Yes	Both	525-Yes	52-Yes	Both	420-Yes	84-Yes	Both
19:00	0	0	NB	350-No	105-No	—	525-No	52-No	—	420-No	84-No	—
20:00	0	0	NB	350-No	105-No	—	525-No	52-No	—	420-No	84-No	—
21:00	0	0	NB	350-No	105-No	—	525-No	52-No	—	420-No	84-No	—
22:00	0	0	NB	350-No	105-No	—	525-No	52-No	—	420-No	84-No	—
23:00	0	0	NB	350-No	105-No	—	525-No	52-No	—	420-No	84-No	—

**Benefit Cost Analysis Work Sheet
CONGESTION Investment Strategy Projects**

STP 012-1(112)

662650

Cherokee County

SR 20 @ SR 108 Intersection Improvements

Congestion Benefit = Tb + CMb + Ab

Time Benefit (Tb)

Db (hrs)	0.16
ADT	10,700.00
Tb (\$s)	\$57,566,000.00

Commercial Benefit (CMb)

Db (hrs)	0.16
% Truck Traffic	0.085
ADT	10,700.00
CMb	\$25,847,990.00

Total Congestion Benefit	\$83,413,990.00
Construction Cost	\$5,400,000.00

B/C Ratio **15.45**

There will be increased delay along SR 20 due to the insalation of the Traffic Signal. The above analysis takes into account the traffic at all four legs of the intersection using a weighted average.

NOTICE OF LOCATION AND DESIGN APPROVAL

STP 012-1(112) CHEROKEE COUNTY

P. I. # 662650

Notice is hereby given in compliance with Georgia Code 22-2-109 that the Georgia Department of Transportation has approved the Location and Design of this project.

The date of location approval is: SEPTEMBER 8, 2008

This project consists of intersection improvements on SR 20 at SR 108 and the relocation of White Road. This project is in GMD 1026 and in the Land Lots 11, 23, 24, 25, 26 and 50.

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

Mike Thomason
Mike.Thomason@dot.state.ga.us
874 Peoples Valley Rd, Cartersville, GA, 30120
(770) 387-3680

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:

Dewayne Comer
District Preconstruction
Dewayne.Comer@dot.state.ga.us
500 Joe Frank Harris Parkway
(770) 387-3619

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