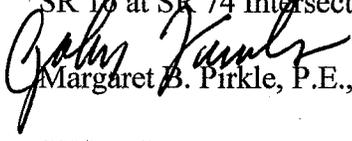


D.O.T. 66

DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

**FILE** STP-0000-00(818) Coweta County **OFFICE** Preconstruction  
P. I. No. 0000818  
SR 16 at SR 74 Intersection Improvement **DATE** February 16, 2005  
**FROM** *for*  Margaret B. Pirkle, P.E., Assistant Director of Preconstruction  
**TO** SEE DISTRIBUTION

**SUBJECT REVISED PROJECT CONCEPT REPORT APPROVAL**

Attached for your files is the approval for subject project.

MBP/cj

Attachment

DISTRIBUTION:

David Mulling  
Harvey Keeper  
Ken Thompson  
Jamie Simpson  
Michael Henry  
Keith Golden  
Joe Palladi (file copy)  
Babs Abubakari  
Thomas Howell  
BOARD MEMBER

DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

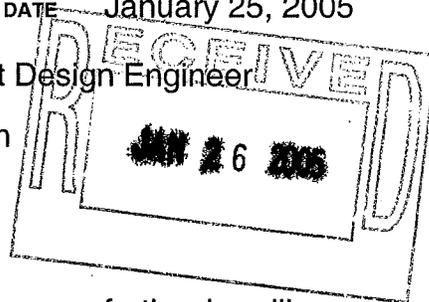
FILE STP-0000-00(818) Coweta County  
SR 16 @ SR 74/SR 85  
Intersection Improvement  
P.I. No. 0000818

OFFICE Atlanta, Georgia

DATE January 25, 2005

FROM Mohammed (Babs) Abubakari, P. E., State Consultant Design Engineer

TO Meg Pirkle, P. E., Assistant Director of Preconstruction



SUBJECT **Revised Project Concept Report**

Attached is the original copy of the revised Concept Report for your further handling and approval in accordance with the Plan Development Process

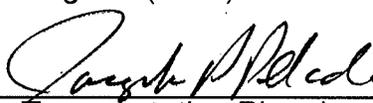
The concept is being revised to change the typical section from a rural section to an urban section and to reduce the speed design from 55 mph to 45 mph.

If you have any questions, please contact Joe Wheeler at (404)657-9759.

<sup>JDW</sup>  
MBA:JDW  
Attachment

The revised 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: 2/09/05

  
\_\_\_\_\_  
State Transportation Planning Administrator

cc: David Mulling  
Harvey Keeper  
Keith Golden  
Joe Palladi  
Jamie Simpson  
Thomas Howell

## REVISED PROJECT CONCEPT REPORT

### Need and Purpose:

Accident history for this location shows fourteen accidents over a three-year period. The operational improvements to the intersection, as listed below, will greatly enhance the operational efficiency of this intersection. To improve the safety and orderly progression of traffic through the intersection, these improvements are recommended.

### Project Location:

The proposed length of the project is approximately 0.57 miles. The intersection of S.R. 16 at S.R. 74/85 is located approximately 0.13 miles east of the Senoia City Limits and 2.18 miles south of the Fayette County Line in Coweta County.

### Description of the approved concept:

S.R. 16 will be widened six feet symmetrically to provide a left-turn lane with an additional 12-foot auxiliary right-turn lane in both directions. S.R. 74/85 will be widened six feet symmetrically to provide a left-turn lane with an additional 12-foot auxiliary right-turn lane in both directions.

### PDP Classification:

Minor Existing

### Federal Oversight:

Full Oversight ( )

Exempt (x)

State Funded ( )

Other ( )

### Functional Classification:

S.R. 16 Rural Minor Arterial

S.R. 74/85 Rural Minor Arterial

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

State Route Number(s): S.R. 16  
S.R. 74/85

### Traffic (AADT) as shown in the approved concept:

Current Year:

S.R. 16 5,600 (1998 ADT)

S.R. 74/85 4,900 (1998 ADT)

**Proposed feature(s) to be revised:**

The original proposed typical section for S.R. 16 & S.R. 74/85 was to be a rural section with variable width grass & paved shoulders. It is recommended that the typical section along all approaches consist of an urban section since commercial development is to be expected in the future for this area. In addition, this will match the typical section that is proposed for an adjacent project (BRST-074-2(42) Coweta, PI 333176) to the north. The approved Project Concept Report states that S.R. 16 and S.R. 74/85 will have a design speed of 55 mph. It is also recommended that the design speed be revised to 45 mph. This will match the posted speed limit and also will accommodate the proposed revised typical section.

**Describe the revised feature(s) to be approved:**

S.R. 16 will consist of 2-12 ft. travel lanes, one in each direction, with a 12 ft. left and right turn lane in both directions with curb & gutter and 5 ft. sidewalks.

S.R. 74/85 will consist of 2-12 ft. travel lanes, one in each direction, with a 12 ft. left and right turn lane in both directions with curb & gutter and 5 ft. sidewalks.

S.R. 16 and S.R. 74/85 shall have a design speed of 45 mph.

**Updated traffic data (AADT):**

Current Year:

S.R. 16	9,150 (2003 ADT)
S.R. 74/85	8,650 (2003 ADT)

Design Year:

S.R. 16	17,400 (2028 ADT)
S.R. 74/85	16,100 (2028 ADT)

**Programmed / Schedule:**

P.E.:	2003
R/W:	Local
Construction:	Lump

**Revised Cost Estimates:**

Right-of-Way	\$468,375
Construction	\$499,613

**Is the project located in a Non-attainment area?**

Yes (x)  
No ( )

**Recommendation:**

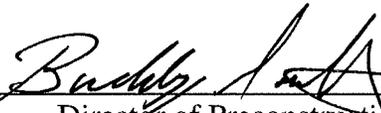
In summary, it is recommended that the following features be revised for implementation:

- Proposed typical section shall consist of an urban section

- Design speed shall be 45 mph

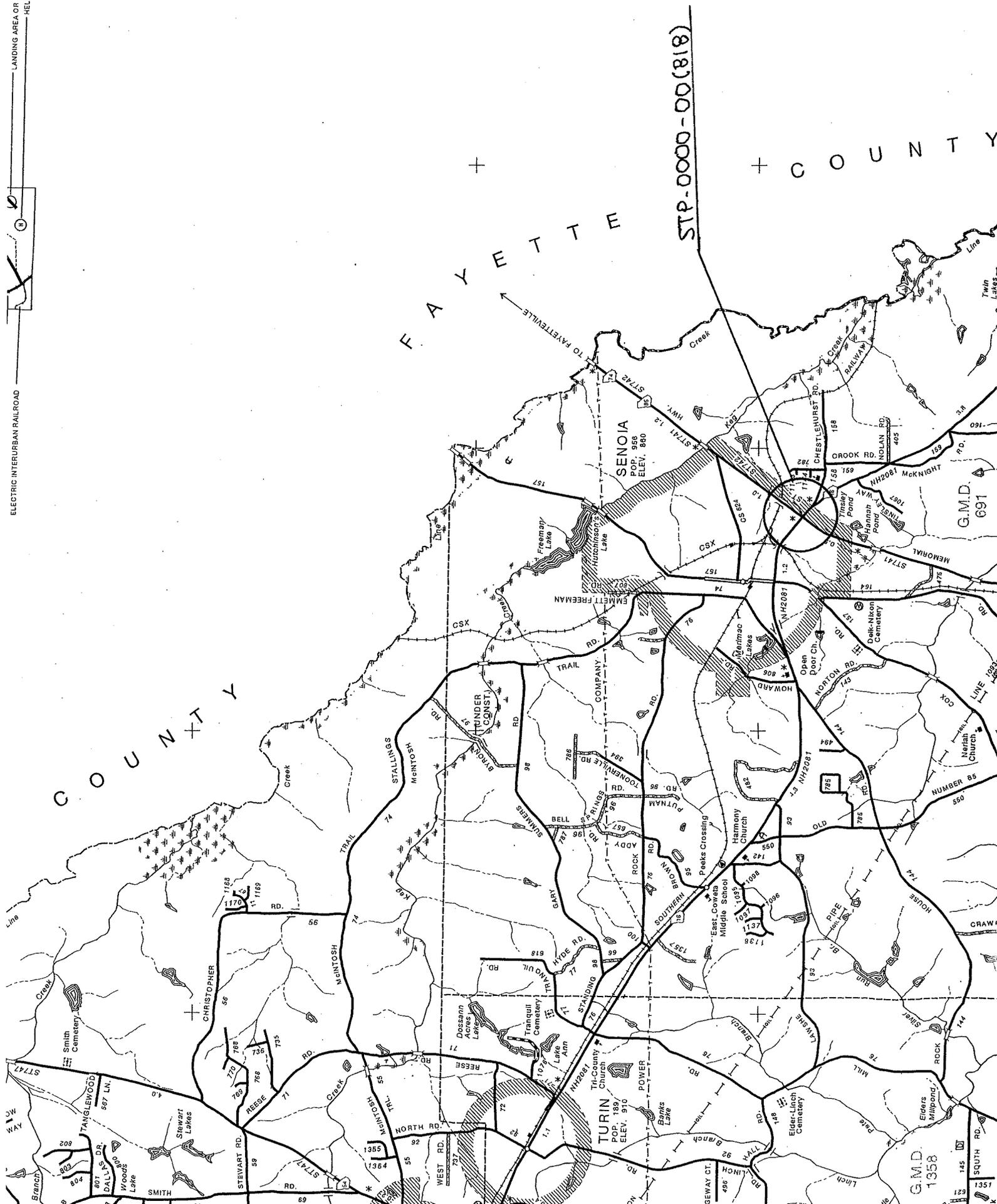
**Attachments:**

- Sketch Map
- Cost Estimate
- Typical section
- Summary of accidents 2000-2003

Concur:   
Director of Preconstruction

Approve:   
Chief Engineer

ELECTRIC INTERURBAN RAILROAD  
LANDING AREA OF STRIP  
HELIPORT



STP-0000-00(818)

FAYETTE COUNTY

COUNTY

G.M.D. 1358

G.M.D. 691

# PRELIMINARY CONSTRUCTION COST ESTIMATE

S.R. 16 @ S.R. 74 / 85  
Coweta County  
Project No.: STP-0000-00(818)  
P.I. No.: 0000818

January 24, 2005

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<u>ITEM NO.</u>	<u>DESCRIPTION, QUANTITY, UNIT &amp; UNIT PRICE</u>	<u>AMOUNT</u>
1	12" Graded Aggregate Base 2,450 S.Y. @ \$15.00 / S.Y.	\$36,750.00
2	4" Asphaltic Conc. Base, 25mm Superpave, GP 1 or 2 330 Tons @ \$40.00 / Ton	\$13,200.00
3	2" Asphaltic Conc., 19mm Superpave, GP1 or 2 165 Tons @ \$44.00 / Ton	\$7,260.00
4	1.5" Asphaltic Conc., 12.5mm Superpave, GP1 or 2 690 Tons @ \$40.00 / Ton.	\$27,600.00
5	Asphaltic Conc. Leveling 1,800 Tons @ \$44.00 / Ton	\$79,200.00
6	Bitum. Tack Coat 1,860 Gal. @ \$1.00 / Gal.	\$1,860.00
7	Conc. Curb & Gutter 5,300 L.F. @ \$13.00 / L.F.	\$68,900.00
8	Embankment 7,500 C.Y. @ \$7.00 / C.Y.	\$52,500.00
9	Excavation 600 C.Y. @ \$4.00 / C.Y.	\$2,400.00
10	Grassing Lump Sum	\$5,000.00

# PRELIMINARY CONSTRUCTION COST ESTIMATE

S.R. 16 @ S.R. 74 / 85  
Coweta County  
Project No.: STP-0000-00(818)  
P.I. No.: 0000818

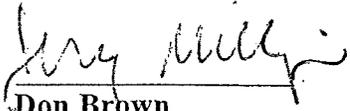
November 3, 2004

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<u>ITEM NO.</u>	<u>DESCRIPTION, QUANTITY, UNIT &amp; UNIT PRICE</u>	<u>AMOUNT</u>
11	Erosion Control Lump Sum	\$25,000.00
12	Drainage Lump Sum	\$40,000.00
13	Concrete Sidewalk 2,950 S.Y. @ \$26.00 / S.Y.	\$76,700.00
14	Traffic Control Lump Sum	\$50,000.00
15	Traffic Signals 1 Each @ \$50,000	\$50,000.00
16	Signing and Marking Lump Sum	<u>\$20,000.00</u>
	Subtotal	\$556,370.00
	1 year inflation @ 5%	<u>\$27,819.00</u>
	Subtotal	\$584,189.00
	E&C (10%)	\$58,419.00
	<b>GRAND TOTAL</b>	<b>\$642,608.00</b>

# Preliminary Right of Way Cost Estimate



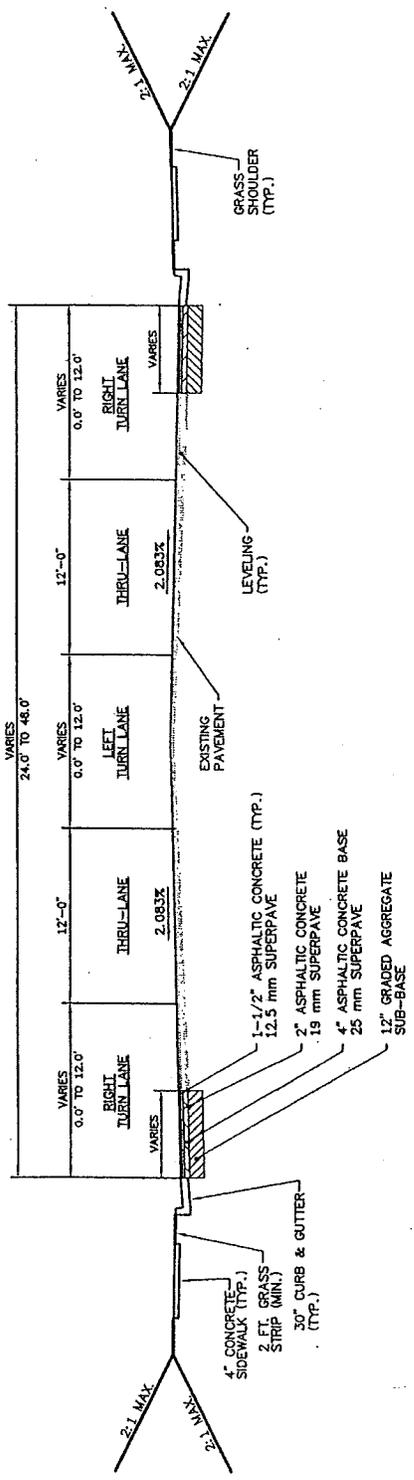
**Don Brown**  
Right of Way Administrator  
By: Jerry Milligan

**Date:** December 28, 2004  
**Project:** STP-0000-00(818)Coweta  
**Existing/Required R/W:** Varies/Varies  
**Project Termini:** SR 16 @ SR 74 / 85  
**Project Description:** SR 16 @ SR 74 / 85 Interchange Improvement

**P.I. Number:** 0000818  
**No. Parcels:** 6

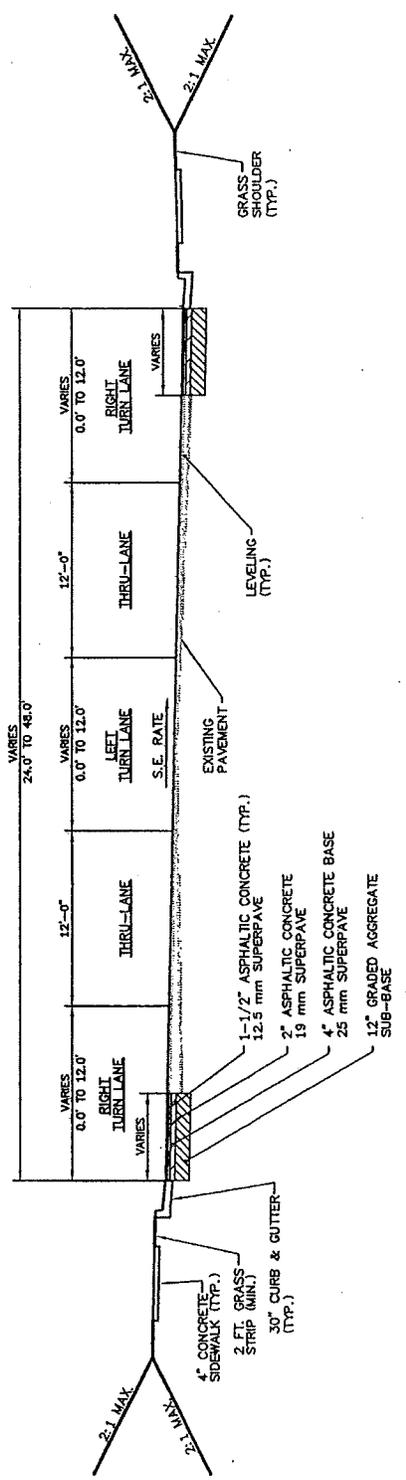
<b>Land:</b> Commercial : 38,500 sf @ \$ 3.00 / sf	\$	115,500 .
<b>Improvements :</b> signs, misc. site improvements		19,400
<b>Relocation:</b> Residential ( 0 ) Commercial ( 0 )		0
<b>Damage :</b> Proximity ( 0 ) parcel		<u>0</u>
<b>Net Cost</b>	\$	134,900
<b>Net Cost</b>	\$	134,900
<b>Scheduling Contingency</b> 55 %		74,195
<b>Adm/Court Cost</b> 60 %		125,457
<b>Inflation Factor</b> 40 %		<u>133,821</u>
	\$	468,373

**Total Cost**                      **\$ 468,375**



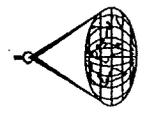
**TYPICAL SECTION**

NOT TO SCALE



**TYPICAL SECTION - SUPERELEVATED**

NOT TO SCALE



**Cranston, Robertson & Whitehurst, P.C.**  
 452 ELLIS STREET - ENGINEERS - PLANNERS - SURVEYORS  
 P.O. DRAWER 2546 - AUGUSTA, GEORGIA 30901

COWETA COUNTY, SR#16 @ SR#485

Accident Number	Date	Time	County	Route Type	Route	Milelog	X-Ing Rt Type	X-Ing Rt	Injuries	Fatalities	Harmful Event	Collision	Location of Impact	Light	Surface	DirVeh1	DirVeh2	MnvrVeh 1	MnvrVeh 2
00890563	12/3/00	9:44 AM	Coweta	State Route	'001600	28.09	1	00740 0	0	0	Motor Vehicle in Motion	Rear End	On Roadway	Daylight	Wet	E	E	Straight	Stopped
01130335	3/12/00	3:19 PM	Coweta	State Route	'001600	28.09	1	00740 3	0	0	Motor Vehicle in Motion	Head On	On Roadway	Daylight	Dry	E	S	Straight	Straight
03590344	10/25/00	5:44 PM	Coweta	State Route	'001600	28.09	1	00740 0	0	0	Motor Vehicle in Motion	Rear End	On Roadway	Daylight	Dry	S	S	Straight	Stopped
03060579	8/7/00	12:32 PM	Coweta	State Route	'001600	28.09	1	00740 0	0	0	Motor Vehicle in Motion	Angle	On Shoulder	Daylight	Dry	N	N	Turning Right	Turning Right
12160021	7/3/01	7:56 AM	Coweta	State Route	'001600	28.09	1	00740 0	0	0	Motor Vehicle in Motion	Angle	On Roadway	Daylight	Dry	E	N	Straight	Straight
12160022	7/20/01	5:13 PM	Coweta	State Route	'001600	28.09	1	00740 0	0	0	Motor Vehicle in Motion	Sideswipe - Opposite Direction	On Roadway	Daylight	Wet	E	N	Turning Left	Straight
12160028	7/28/01	2:43 PM	Coweta	State Route	'001600	28.09	1	00740 1	0	0	Motor Vehicle in Motion	Rear End	On Roadway	Daylight	Dry	W	W	Straight	Stopped
13280232	11/15/01	6:24 PM	Coweta	State Route	'001600	28.09	1	00740 0	0	0	Other Object (Not Fixed)	Not A Collision With A Motor Vehicle	Off Roadway	Dark-Lighted	Dry	W	W	Turning Left	Turning Left
10450506	2/2/01	6:43 PM	Coweta	State Route	'001600	28.09	1	00740 1	0	0	Motor Vehicle in Motion	Rear End	On Roadway	Dark-Lighted	Dry	E	E	Straight	Stopped
13730108	12/17/01	7:39 AM	Coweta	State Route	'001600	28.09	1	00740 0	0	0	Motor Vehicle in Motion	Angle	On Roadway	Daylight	Wet	S	N	Straight	Turning Left
12730109	9/13/01	2:15 PM	Coweta	State Route	'001600	28.09	1	00740 0	0	0	Motor Vehicle in Motion	Rear End	On Roadway	Daylight	Dry	N	N	Straight	Stopped
20910144	3/24/02	11:14 AM	Coweta	State Route	'001600	28.09	1	00740 0	0	0	Motor Vehicle in Motion	Rear End	On Roadway	Daylight	Wet	E	E	Straight	Straight
30680767	2/26/03	1:31 PM	Coweta	State Route	'001600	28.09	1	00740 0	0	0	Motor Vehicle in Motion	Angle	On Roadway	Daylight	Dry	E	S	Straight	Stopped

