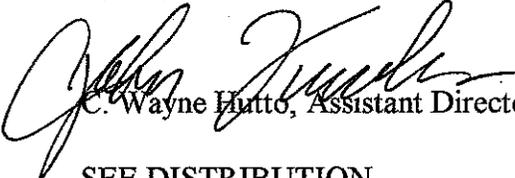


D.O.T. 66

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE STP-0002-00(019) Walton County **OFFICE** Preconstruction
P. I. No. 0002019 **DATE** January 16, 2002

FROM  C. Wayne Hutto, Assistant Director of Preconstruction

TO SEE DISTRIBUTION

SUBJECT NOTICE OF LOCATION AND DESIGN APPROVAL

Attached for your further handling is the approved Location and Design Report on the above subject project.

Also attached is the Notice of Location and Design Approval. This is authorization for the District to proceed with advertisement.

CWH/cj

Attachment

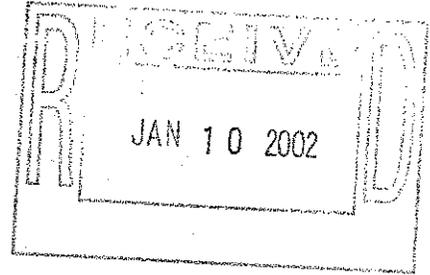
DISTRIBUTION:

Tom Turner
David Mulling
Harvey Keepler
Herman Griffin
Paul Liles
Phillip Allen
Jerry Hobbs
Marta Rosen
Ben Buchan
Larry Dent
BOARD MEMBER

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

FILE ① STP-0002-00(019), Walton County **OFFICE** Traffic Safety and Design
P.I. No. 0002019
S.R. 81 @ CR 88/ Tom & Claude Brewer Roads **DATE** January 9, 2002
Phillip M. Allen
FROM Phillip M. Allen, State Traffic Safety and Design Engineer
TO C. Wayne Hutto, Assistant Preconstruction Division Director
SUBJECT Location and Design Report



DESCRIPTION: Project STP-0002-00(019), Walton County is located on SR 81 approximately 4.12 miles north of the City Limits of Walnut Grove and 0.60 miles south of the City Limits of Loganville.

PROJECT PROPOSAL: The above referenced project proposes to widen and reconstruct SR 81 and CR 88 to provide left and right turn lanes on all approaches to include a stop & go traffic signal will be installed.

CONCEPT REPORT APPROVAL DATE: January 3, 2001

REVISED CONCEPT REPORT APPROVAL DATE: N/A.

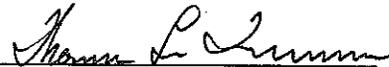
ESTIMATED COSTS:	Construction	\$307,932
	Rights-of-Way	\$ 38,000
	Utilities	\$ 0
	Total Project Cost	\$345,932

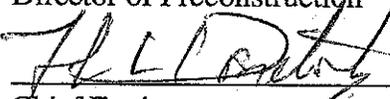
ENVIRONMENTAL ASSESSMENT APPROVAL DATE: A Programmatic Categorical Exclusion was approved on October 4, 2001.

PUBLIC HEARING RESULTS: The proposed project is classified as a Minor Project with minimal additional rights-of-way and easements required; no residential or commercial displacements will be required, only strip takes.

Mr. Hutto
January 9, 2002
Page 2 of 2

RECOMMENDATIONS: It is recommended that we approve this project location and design and that the attached "Notice" be approved for advertising.

RECOMMENDED: 
Director of Preconstruction

APPROVAL: 
Chief Engineer

PMA:KPW

Attachments: Notice of Location and Design Approval, Approved Concept Report.

NOTICE OF LOCATION AND DESIGN APPROVAL

STP-0002-00(019)

P.I. # 0002019

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.

Date of Location and Design Approval: *JANUARY 16, 2002*

The intersection of SR 81 @ CR 88/Tom & Claude Brewer Roads will be widened and reconstructed to provide left and right turn lanes on all approaches and will include the installation of a stop & go traffic signal. This project lies entirely within Walton County and within Land District 4, Land Lots 158 & 159 and GMD 417.

SR 81 and CR 88/Tom & Claude Brewer Roads will be widened six feet symmetrically to provide a left turn lane on all approaches with a 12-foot auxiliary right turn lane in both directions on SR 81 and CR 88 eastbound.

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:

Todd Long, P.E., District Preconstruction Engineer
Department of Transportation
Gainesville District Office
2505 Athens Highway, SE
Gainesville, Ga. 30507

(770) 532-5500

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:

Phillip M. Allen, State Traffic Safety & Design Engineer
Office of Traffic Safety & Design
935 East Confederate Ave., Bldg. 24
Atlanta, Georgia 30316

(404) 635-8129

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.

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE: STP-0002-00(019) Walton County
P.I. No.: 0002019
SR 81 @ CR 88/Tom & Claude Brewer Roads
Safety/Intersection Improvements

OFFICE: Traffic Operations
Atlanta, Georgia
DATE: January 3, 2001

FROM: ⁽⁶⁸³⁾ Marion G. Waters, III, P.E., State Traffic Operations Engineer

TO: Larry Dent, District Engineer, Gainesville
Attn: Todd Long

SUBJECT: APPROVED CONCEPT REPORT

Attached is a copy of the approved concept report and a copy of our files on the above listed project for your use and further handling.

This project consists of the widening to provide left & right turn lanes on all approaches. A stop and go traffic signal will also be installed.

By copy of this letter, this office is requesting for this project be assigned to Karl Alff as Project Manager. The design of this project will be handled under our Consultant Design Contract, STP-0001-00(853).

Should you have any questions, please contact Ken Werho of this office at 404-635-8125.

MGW:KPW

Attachments

- cc: Frank Danchetz
- Tom Turner, w/attach.
- David Mullins, w/attach.
- Wayne Hutto, w/attach.
- Herman Griffin, w/attach.
- Harvey Keepler, w/attach.
- Joe Garland, w/attach.
- Dick Graves, w/attach.
- General Files

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

PROJECT CONCEPT REPORT

WALTON COUNTY

FEDERAL ROUTE NO:
STATE ROUTE NO: 81
GADOT P.I. NO:

SEE ATTACHED
LOCATION SKETCH

Date of Report: September 5, 2000

RECOMMENDED:	<u>9/8/2000</u>	<u><i>Marion S. Waters</i></u>
	DATE	STATE TRAFFIC OPERATIONS ENGINEER
RECOMMENDED:	<u>9/21/00</u>	<u><i>Larry E. Denton</i></u>
	DATE	DISTRICT ENGINEER
RECOMMENDED:	<u>12-5-00</u>	<u><i>J. H. Fausch</i></u>
	DATE	CHIEF ENGINEER
APPROVED:	<u>12/7/00</u>	<u><i>J. Tom Colbert</i></u>
	DATE	COMMISSIONER

PROJECT CONCEPT REPORT

P.I. No.:

Project No.: Walton County

Route No.: S.R. 81
C.R. 88/Claude & Tom Brewer Roads

Location: The intersection of SR. 81 @ CR 88 is located approximately 4.12 miles north of the City Limits of Walnut Grove and 0.60 miles south of the City Limits of Loganville on S.R. 81 in Walton County.

Description: SR 81 will be widened 6 ft. symmetrically to provide a left turn lane in both directions with a 12' auxiliary right turn lane.
CR 88 will be widen 6 ft. symmetrically to provide a left turn lane in both directions with a 12' auxiliary right turn lane eastbound.

Traffic - Current ADT: SR 81 ----- 11,600 (1998 ADT)
CR 88 ----- 1,170 (1998 ADT)

Existing Typical: SR 81: 2 - 12 ft. travel lanes, one in each direction, with 5 ft. grassed shoulders.

CR 88: 2 - 11 ft. travel lanes, one in each direction, with variable shoulders.

Existing Right of Way: SR 81 ----- 100' (Estimated)
CR 88 ----- 60' (Estimated)

Existing Traffic Control: SR 81 is a through movement. CR 88 has stop ahead sign, stop sign and stop bar.

Existing Major Structures: None.

Statement of Need & Purpose: Accident history for this intersection shows only seventeen accidents at this location over a four year period ('95 - '98) with eight being angle intersecting & five rear ends. The instillation of a traffic signal with left and right turn lanes will greatly reduce the number of accidents and greatly enhance the operational efficiency of this intersection. To improve the safety and orderly progression of traffic through the intersection, these improvements are recommended.

Bicycle & Pedestrian Considerations: None.

Length: 0.44 miles

Termini: - SR 81 - - CR 88 -
From M.P.: 7.42 2.06
To M.P. : 7.61 2.31

PDP Class: Minor Existing

Functional Class: SR 81 ----- Rural Minor Arterial
CR 88 ----- Rural Minor Collector

Max Degree of Curve: +/- 1.0 Degrees **Max Grades:** +/- 1.0 %

Design Speed: 45 & 55 mph.

Proposed Typical Section: SR 81: 2 – 12 ft. travel lanes, one in each direction, with a 12 ft. left & right turn lanes in both directions.

CR 88: 2 – 12 ft. travel lanes, one in each direction, with a 12 ft. left turn lane in both directions and a 12 ft. right turn lane eastbound.

Proposed major structures: None.

Type Access: By Permit.

Traffic Control During Construction: Existing operation shall be maintained during construction.

Right-of-Way Requirement: Walton County shall be responsible for the acquisition of all Required Right-of-Way for this project.

Utilities: Walton County shall be responsible for all Utility adjustments.

Estimated Cost:

<u>Item</u>	<u>Total Amount</u>
R/W -----	\$ 38,000 (By County LGPA)
Utilities -----	\$ 0 (By County LGPA)
Estimated LGPA Total -----	\$ 38,000
Construction -----	\$ 229,938
Traffic Signal -----	\$ 50,000
Railroad Equipment -----	\$ 0
E & C 10% -----	\$ 27,994
Total Construction -----	\$ 307,932

Permits Required: Traffic Signal.

Level of Environmental Analysis: Categorical Exclusion.

Level of Public Involvement: None.

Time Saving Procedures Appropriate: Yes (X) No (.)

Design Variances Required: None.

Alternates Considered: None.

Comments:

Prepared By:



Ken Werho

DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA

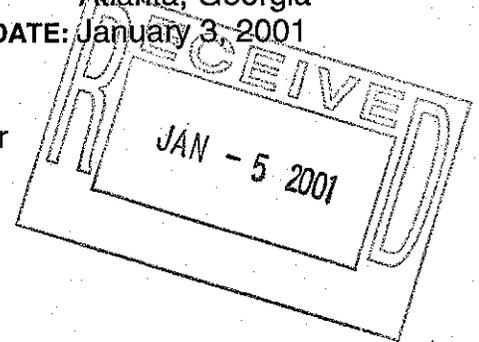
INTERDEPARTMENT CORRESPONDENCE

FILE: STP-0002-00(019) Walton County
P.I. No.: 0002019
SR 81 @ CR 88/Tom & Claude Brewer Roads
Safety/Intersection Improvements

OFFICE: Traffic Operations
Atlanta, Georgia
DATE: January 3, 2001

FROM: ^{MGW} Marion G. Waters, III, P.E., State Traffic Operations Engineer

TO: Larry Dent, District Engineer, Gainesville
Attn: Todd Long



SUBJECT: APPROVED CONCEPT REPORT

Attached is a copy of the approved concept report and a copy of our files on the above listed project for your use and further handling.

This project consists of the widening to provide left & right turn lanes on all approaches. A stop and go traffic signal will also be installed.

By copy of this letter, this office is requesting for this project be assigned to Karl Alff as Project Manager. The design of this project will be handled under our Consultant Design Contract, STP-0001-00(853).

Should you have any questions, please contact Ken Werho of this office at 404-635-8125.

MGW:KPW

Attachments

cc: Frank Danchetz
Tom Turner, w/attach.
David Mullins, w/attach.
Wayne Hutto, w/attach.
Herman Griffin, w/attach.
Harvey Keeper, w/attach.
Joe Garland, w/attach.
Dick Graves, w/attach.
General Files

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

PROJECT CONCEPT REPORT

WALTON COUNTY

STP-0002-00(019)

FEDERAL ROUTE NO:

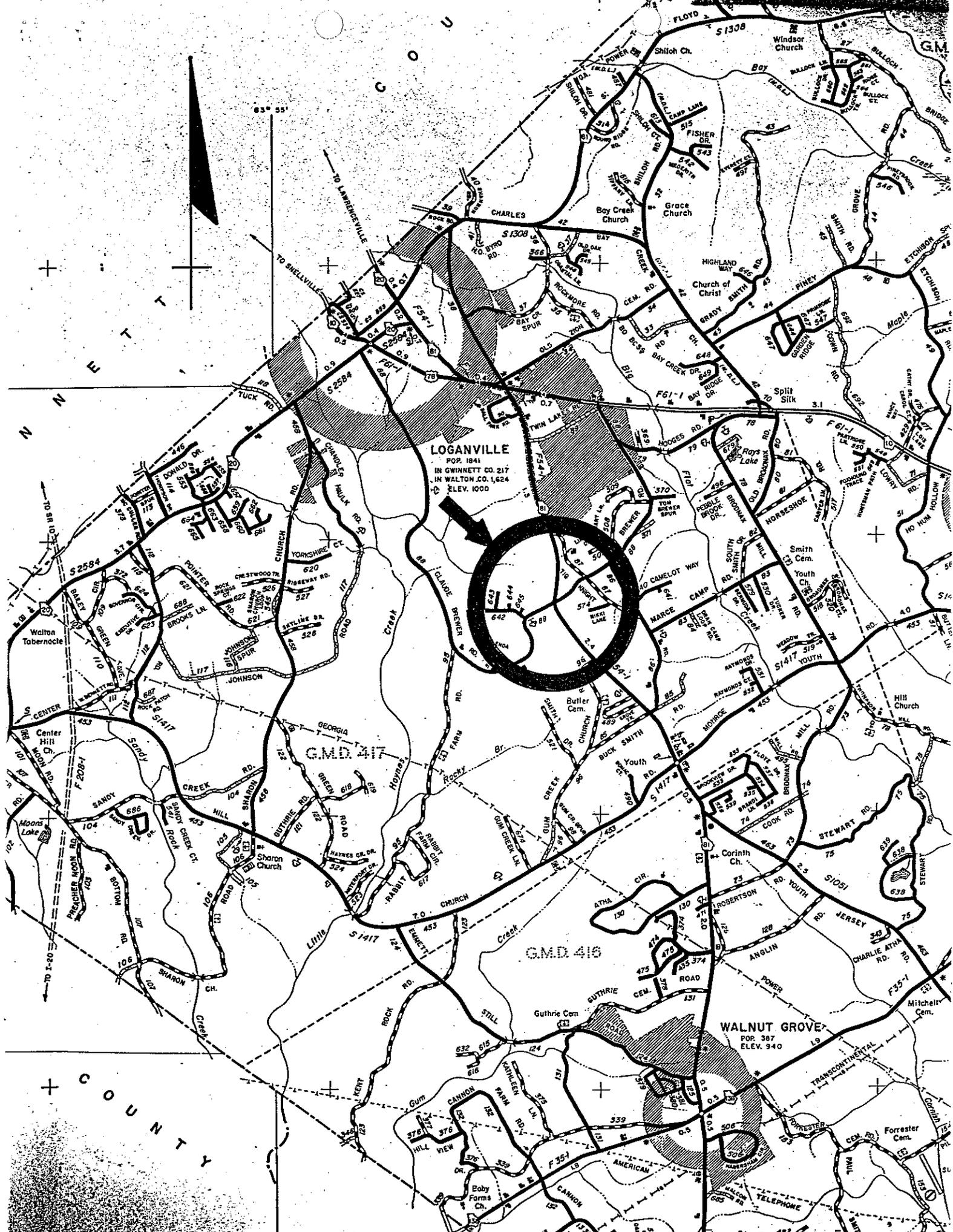
STATE ROUTE NO: 81

GADOT P.I. NO: 0002019

SEE ATTACHED
LOCATION SKETCH

Date of Report: September 5, 2000

RECOMMENDED:	<u>9/8/2000</u>	<u><i>Marion S. Wilton</i></u>
	DATE	STATE TRAFFIC OPERATIONS ENGINEER
RECOMMENDED:	<u>9/21/00</u>	<u><i>Larry E. Dutton</i></u>
	DATE	DISTRICT ENGINEER
RECOMMENDED:	<u>12-5-00</u>	<u><i>J. H. Fausch</i></u>
	DATE	CHIEF ENGINEER
APPROVED:	<u>12/7/00</u>	<u><i>Tom Coleman</i></u>
	DATE	COMMISSIONER



LOGANVILLE
POP. 1841
IN GWINNETT CO. 217
IN WALTON CO. 1,624
ELEV. 1000

WALNUT GROVE
POP. 387
ELEV. 940

G.M.D. 417

G.M.D. 416

G.M.D. 415



TO LAWRENCEVILLE

TO SHELLVILLE

TO LAWRENCEVILLE

TO CONTERS

PROJECT CONCEPT REPORT

P.I. No.: 0002019

Project No.: STP-0002-00(019) Walton County

Route No.: S.R. 81
C.R. 88/Claude & Tom Brewer Roads

Location: The intersection of SR. 81 @ CR 88 is located approximately 4.12 miles north of the City Limits of Walnut Grove and 0.60 miles south of the City Limits of Loganville on S.R. 81 in Walton County.

Description: SR 81 will be widened 6 ft. symmetrically to provide a left turn lane in both directions with a 12' auxiliary right turn lane.
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CR 88: 2 - 11 ft. travel lanes, one in each direction, with variable shoulders.

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CR 88 ----- 60' (Estimated)

Existing Traffic Control: SR 81 is a through movement. CR 88 has stop ahead sign, stop sign and stop bar.

Existing Major Structures: None.

Statement of Need & Purpose: Accident history for this intersection shows only seventeen accidents at this location over a four year period ('95 - '98) with eight being angle intersecting & five rear ends. The instillation of a traffic signal with left and right turn lanes will greatly reduce the number of accidents and greatly enhance the operational efficiency of this intersection. To improve the safety and orderly progression of traffic through the intersection, these improvements are recommended.

Bicycle & Pedestrian Considerations: None.

Length: 0.44 miles

Termini: - SR 81 - - CR 88 -
From M.P.: 7.42 2.06
To M.P.: 7.61 2.31

PDP Class: Minor Existing

Functional Class: SR 81 ----- Rural Minor Arterial
CR 88 ----- Rural Minor Collector

Max Degree of Curve: +/- 1.0 Degrees **Max Grades:** +/- 1.0 %

Design Speed: 45 & 55 mph.

Proposed Typical Section: SR 81: 2 – 12 ft. travel lanes, one in each direction, with a 12 ft. left & right turn lanes in both directions.

CR 88: 2 – 12 ft. travel lanes, one in each direction, with a 12 ft. left turn lane in both directions and a 12 ft. right turn lane eastbound.

Proposed major structures: None.

Type Access: By Permit.

Traffic Control During Construction: Existing operation shall be maintained during construction.

Right-of-Way Requirement: Walton County shall be responsible for the acquisition of all Required Right-of-Way for this project.

Utilities: Walton County shall be responsible for all Utility adjustments.

Estimated Cost:

<u>Item</u>	<u>Total Amount</u>
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Construction -----	\$ 229,938
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Railroad Equipment -----	\$ 0
E & C 10% -----	\$ 27,994
Total Construction -----	\$ 307,932

Permits Required: Traffic Signal.

Level of Environmental Analysis: Categorical Exclusion.

Level of Public Involvement: None.

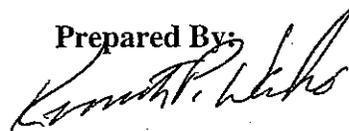
Time Saving Procedures Appropriate: Yes (X) No ()

Design Variances Required: None.

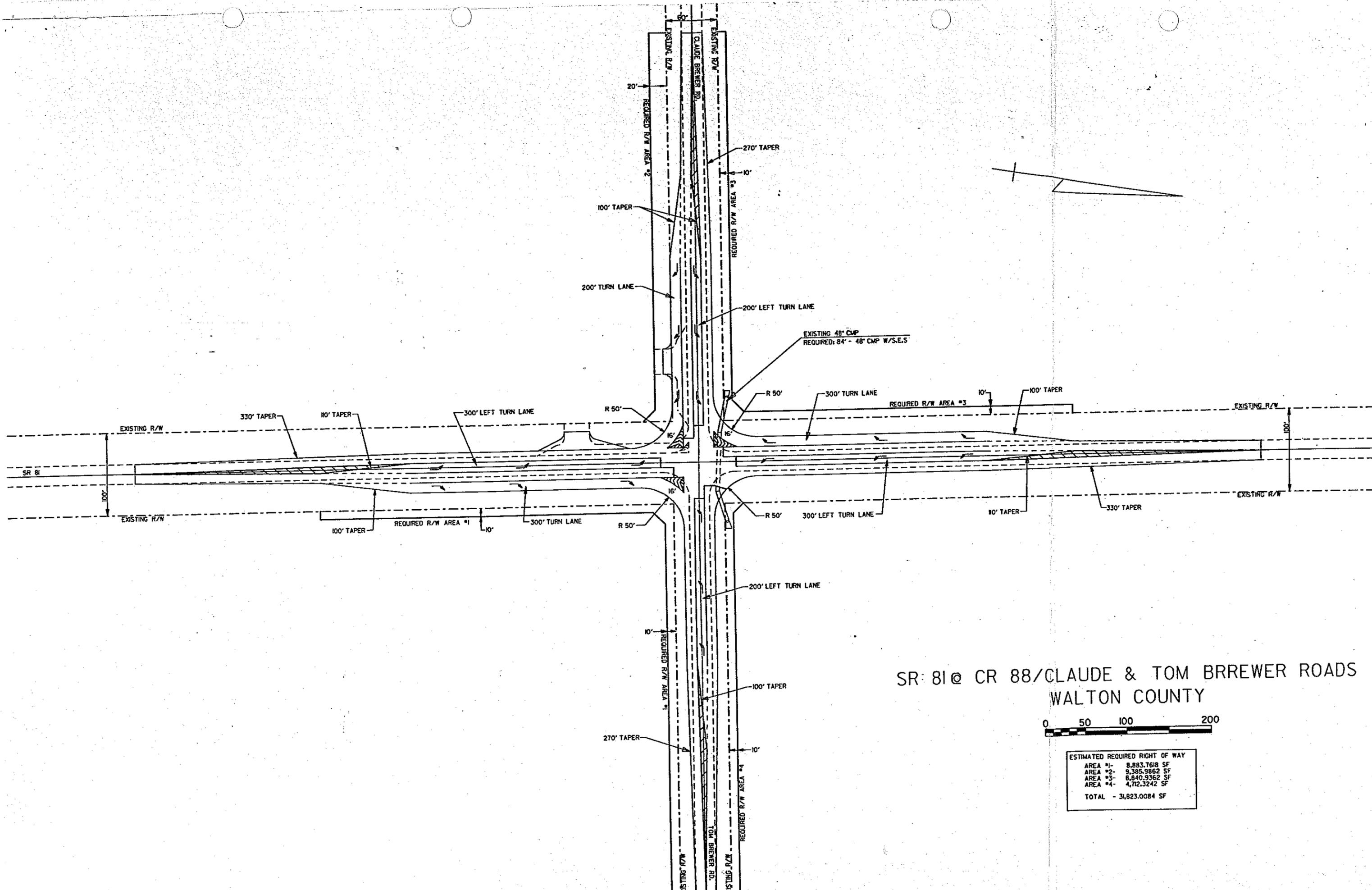
Alternates Considered: None.

Comments:

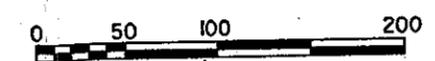
Prepared By:



Ken Werho



SR: 81 @ CR 88 / CLAUDE & TOM BRREWER ROADS
 WALTON COUNTY



ESTIMATED REQUIRED RIGHT OF WAY	
AREA #1-	8,883.7618 SF
AREA #2-	9,385.9862 SF
AREA #3-	8,840.9362 SF
AREA #4-	4,712.3242 SF
TOTAL	31,823.0084 SF

DEPARTMENT OF TRANSPORTATION

STATE OF GEORGIA

TRAFFIC OPERATIONS REPORT

LOCATION: State Route 81 at Claude Brewer/Tom Brewer Road in Walton County.

REASON FOR INVESTIGATION: The Commissioners Office requested an evaluation of the intersection after complaints were received from city officials and residents.

TOPOGRAPHY: State Route 81 is a two-lane rural minor arterial route that starts in Henry County at US 19, and extends north through Newton, Walton into Barrow where it terminates into State Route 8 and 11. State Route 81 is 24 feet wide with two foot paved shoulders. There is a convenience store in the southwest quadrant that has access on State Route 81 and Claude Brewer Road. The other three existing quadrants are currently vacant. The sight distance for the southbound approach is approximately 1000 feet and the northbound approach is approximately 600 feet. There are utility conflicts in the northeast quadrant. Utility conflicts are an above ground monitoring station for the gas company and several power poles.

Claude Brewer Road is a cut through road for State Route 81 traffic to State Route 20, which is west of the stated location. The traffic through Claude Brewer Road is mostly residential. The two-lane section has an island in place for right-turn movements. A right-turn decel lane south of the intersection is for the convenience store's access off of State Route 81, and locals utilize it as an acceleration lane.

Tom Brewer Road also is a cut through road for traffic off of State Route 81 east to State Route 10/US 78. This two-lane section serves numerous subdivisions and provides access to the new high school located off of State Route 10/US 78.

EXISTING TRAFFIC CONTROL: State Route 81 is signed appropriately according to the guidelines set forth by the Georgia Department of Transportation.

A stop and yield condition controls Claude Brewer Road. The recent installation of rumble strips and advance warning signs on Claude Brewer Road also aid the stop condition.

A stop condition also controls Tom Brewer Road. Again, the stop condition is aided by the recent installation of rumble strips and advance warning signs.

VEHICLE VOLUME HISTORY: Our most current vehicle volumes are reflected in the following table:

Estimated Average Daily Traffic:

YEAR	SR 81
1998	11270
1997	11353
1996	11100
1995	10050

VEHICLE VOLUME HISTORY: cont.

Twenty-four hour approach counts were also acquired at the intersection for conducting a signal warrant analysis. The following are approach volumes recorded during October 1999.

Northbound on SR 81	= 7723
Southbound on SR 81	= 7305
Traffic on Claude Brewer	= 912
Traffic on Tom Brewer	= 437

Peak hour count sheets are attached. (Appendix)

QUEUE DELAY: Observation during peak hour traffic periods revealed minimal delay for vehicles on all approaches of State Route 81.

Peak hour observations revealed vehicles on Claude Brewer Road turning left onto State Route 81 experienced 20 to 30 second delay. There were approximately 2 to 3 vehicles queued at the intersection. The right-turn movement had little delay or queuing of vehicles.

Tom Brewer Road had a slightly delay for the left-turn movement, but no cars queued during observation of the intersection.

VEHICULAR SPEEDS: The posted speed limit on State Route 81 is 55 MPH. The average speed was within legal range.

Posted speed on Claude Brewer and Tom Brewer Roads is 45 MPH and average vehicle speed was within legal range.

PEDESTRAIN MOVEMENTS: Due to the rural nature of the area, no pedestrian traffic was observed, and none is expected.

PARKING: The only parking at this intersection occurs at the convenience store.

ACCIDENT HISTORY: A Collision diagram is attached that shows 9 accidents were reported at the intersection. Of the 9 accidents all were the angle-intersecting type that are considered correctable by a stop-and-go traffic signal. The accident data is for a 12-month period. (See Appendix)

ADJACENT SIGNALIZED INTERSECTION: The closest signalized intersection is located at State Route 10/US 78 approximately 2 miles to the north in the City of Loganville. Department personnel currently maintain this signal.

WARRANT ANALYSIS: During the hours counted, traffic volumes satisfied Warrant 2 (8 hours), Warrant 6 (9 accidents), Warrant 9 (5 hours), and Warrant 11 (2 hours).

OTHER INFORMATION: Our office recently recommended the installation of advance warning signs on both approaches of State Route 81. These signs were double indicated with 45 Mile-per-hour speed advisory plates. These routes are used for access to three schools within a four-mile radius. A Quick Response project is not an option due to right-of-way conflicts.

CONCLUSIONS: Based on the data gathered in this study, this intersection meets minimal warrants for signalization at this time. The signal should not be installed if left-turn lanes are not constructed. If the signal is installed without the lanes, the left-turn movement will have a hard time making the movement. The heavy mainline traffic will prohibit the left-turn causing a queuing of vehicles and long delay time.

RECOMMENDATIONS: This office recommends that a safety project be implemented to install left and right-turn lanes on both approaches of State Route 81, in conjunction with a stop-and-go traffic signal. The traffic signal should only be considered if the recommended left-turn lanes are constructed.

PERPARED BY

L. Shon Owen
District Traffic Operations Engineer

DATE 5/15/00

RECOMMENDED BY

Joseph M. Anderson
District Traffic Engineer

DATE 5/15/00

RECOMMENDED BY

State Traffic Operations Engineer

DATE _____

APPROVED BY

Director of Operations

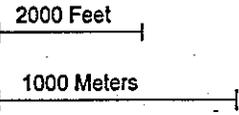
DATE _____

APPENDIX

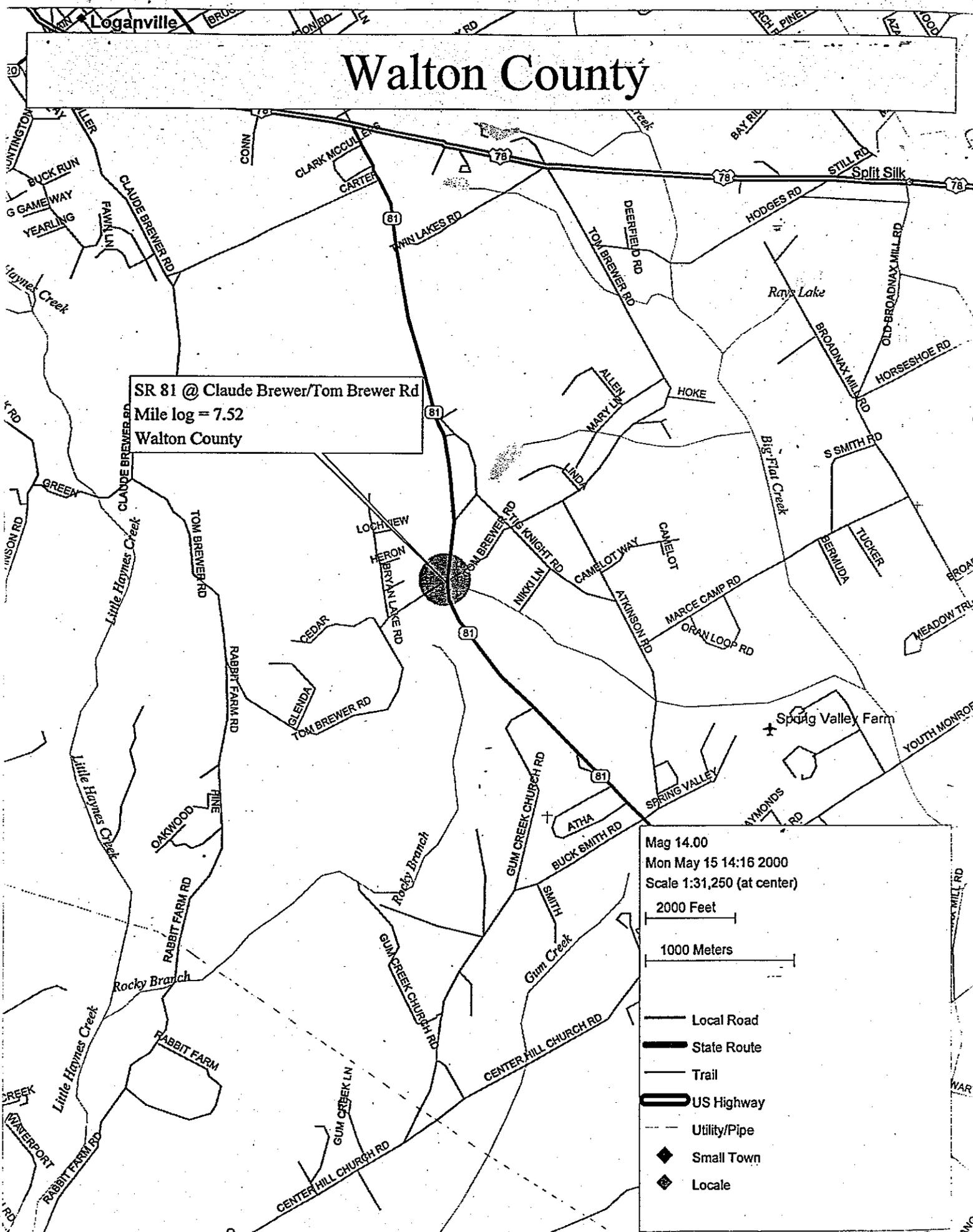
Walton County

SR 81 @ Claude Brewer/Tom Brewer Rd
Mile log = 7.52
Walton County

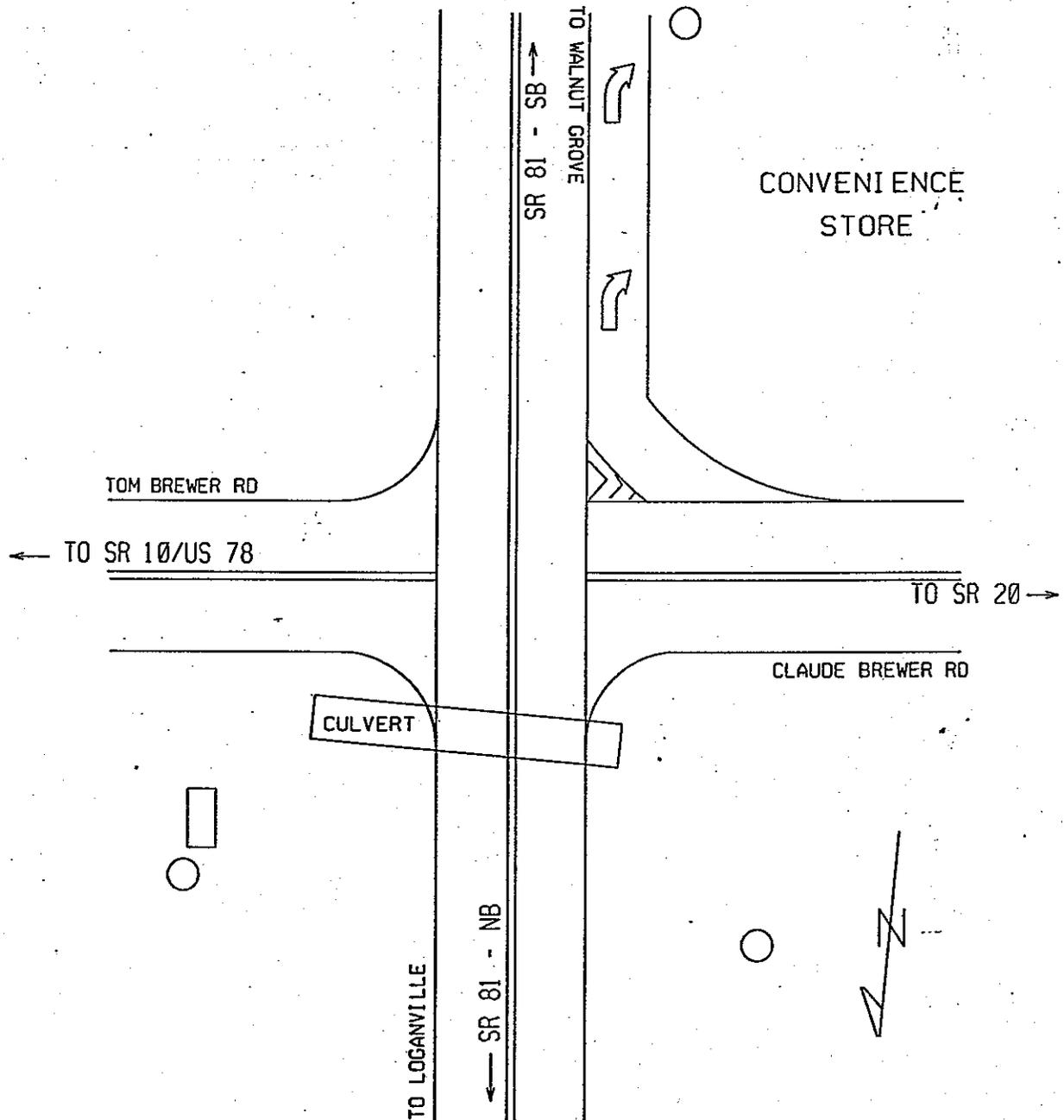
Mag 14.00
Mon May 15 14:16 2000
Scale 1:31,250 (at center)



- Local Road
- State Route
- Trail
- US Highway
- Utility/Pipe
- Small Town
- Locale



EXISTING CONDITION



Warrant Summary:

Rural values apply.

Warrant 1 - Minimum Vehicular Volumes

NOT SATISFIED. Required values reached for 0 hours. Criteria--Main St.: 350; Side St.: See Volume Summary.

Warrant 2 - Interruption of Continuous Traffic

SATISFIED for 8 hours. Criteria--Main St.: 525; Side St.: See Volume Summary.

Warrant 3 - Minimum Pedestrian Volumes

NOT SATISFIED. 8th-High Hour--Pedestrians: 0. Criteria--Pedestrians: 105; Vehicles: 420.

Warrant 4 - School Crossing

NOT APPLICABLE. Gap data has not been defined.

Warrant 5 - Progressive Movement

NOT SATISFIED. Adjacent signals closer than 1000 feet and/or not part of coordinated system.

Warrant 6 - Accident Experience

SATISFIED. At least 80% of Warrants 1, 2, or 3 are met

Correctable Accidents: 9; Right Angle Accidents: 9; Left Turn Accidents: 0; Other Accidents: 0.

Warrant 7 - Systems Warrant

NOT SATISFIED. At least one street has no major approaches. Peak hour total entering volume: 1368.

- Approaches which are part of the principal through traffic roadway network.
- Approaches which connect areas of principal traffic generation.
- Approaches which include rural or suburban highways outside, entering or traversing a city.
- Approaches which have surface street freeway or expressway ramp terminals.
- Approaches which appear as a major route in an official transportation plan.

Warrant 8 - Combination of Warrants

NOT SATISFIED. Required values reached for 1 hours. Criteria--Main: 420; Side: See Volume Summary.

Warrant 9 - Four Hour Volumes

SATISFIED for 5 hours.

Warrant 10 - Peak Hour Delay

NOT SATISFIED. Peak hour (1800 hours) volume not adequate.

Criteria--Main St.: 800 (4 approaches), 650 (3 approaches); Side St.: 100.

Warrant 11 - Peak Hour Volume

SATISFIED for 2 hours.

Major Street Approaches:

Northbound:

7001

Data File: No Count Defined
 Count Type: None. Channel: 0. Count Date: 11/30/99
 Number of Lanes: 1
 Approach Speed: 55
 Total Approach Traffic: 7723

Southbound:

7002

Data File: No Count Defined
 Count Type: None. Channel: 0. Count Date: 11/30/99
 Number of Lanes: 1
 Approach Speed: 55
 Total Approach Traffic: 7305

Minor Street Approaches:

Eastbound:

7003

Data File: No Count Defined
 Count Type: None. Channel: 0. Count Date: 11/30/99
 Number of Lanes: 1
 Approach Speed: 40
 Total Approach Traffic: 912

Westbound:

7004

Data File: No Count Defined
 Count Type: None. Channel: 0. Count Date: 11/30/99
 Number of Lanes: 1
 Approach Speed: 45
 Total Approach Traffic: 437

Analysis of 8-Hour Volume Warrants (Criteria refers to high volume side street for that hour):

Hour	Main	Side			Warrant 1		Warrant 2		Warrant 8	
Begin	(Total)	Vol.	Dir.	Rank	Meets?	Criteria	Meets?	Criteria	Meets?	Criteria
0	0	0	W	22		105		52		84
1	121	0	W	23		105		52		84
2	83	0	W	24		105		52		84
3	58	3	E	19		105		52		84
4	45	1	E	21		105		52		84
5	117	2	E	20		105		52		84
6	379	24	E	17	MAIN	105		52		84
7	983	73	E	3	MAIN	105	--BOTH--	52	MAIN	84
8	1120	64	E	5	MAIN	105	--BOTH--	52	MAIN	84
9	936	47	E	9	MAIN	105	MAIN	52	MAIN	84
10	679	52	E	8	MAIN	105	--BOTH--	52	MAIN	84
11	600	44	E	10	MAIN	105	MAIN	52	MAIN	84
12	642	44	E	11	MAIN	105	MAIN	52	MAIN	84
13	679	37	E	15	MAIN	105	MAIN	52	MAIN	84
14	680	53	E	6	MAIN	105	--BOTH--	52	MAIN	84
15	834	44	E	12	MAIN	105	MAIN	52	MAIN	84
16	997	44	E	13	MAIN	105	MAIN	52	MAIN	84
17	1142	66	E	4	MAIN	105	--BOTH--	52	MAIN	84
18	1244	92	E	1	MAIN	105	--BOTH--	52	--BOTH--	84
19	1226	78	E	2	MAIN	105	--BOTH--	52	MAIN	84
20	898	53	E	7	MAIN	105	--BOTH--	52	MAIN	84
21	713	42	E	14	MAIN	105	MAIN	52	MAIN	84
22	463	29	E	16	MAIN	105		52	MAIN	84
23	389	20	E	18	MAIN	105		52		84

Minor St. High Vol. Approach (UPH)

100

200

300

400

500

600

200

400

600

800

1000

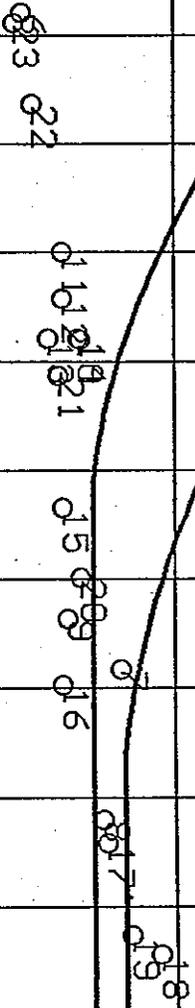
1200

1400

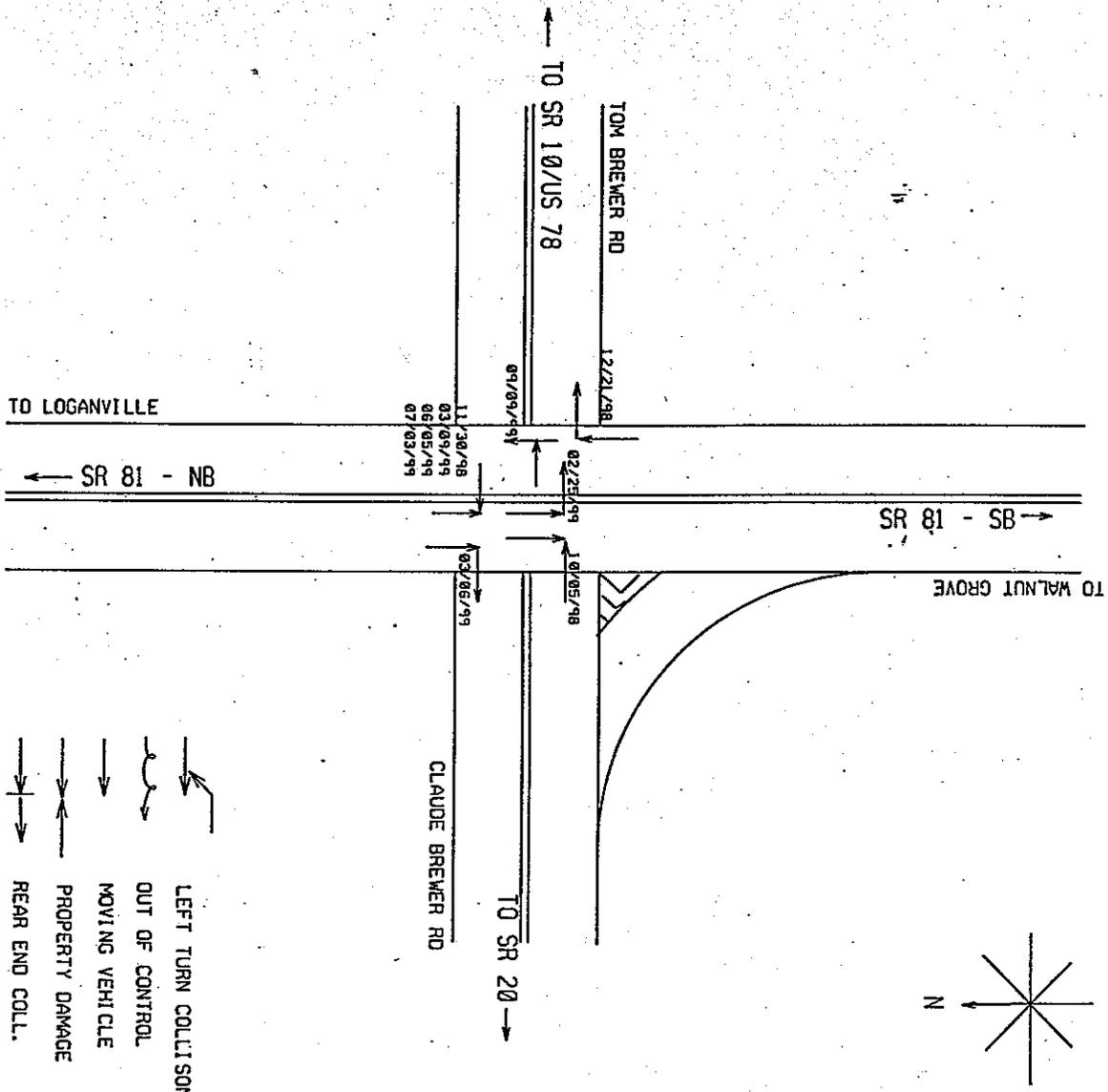
1600

Major St. Total of Both Approaches (UPH)

Warrant 9, Four-Hour Volumes
Warrant 11, Peak-Hour Volumes



COLLISION DIAGRAM



- ← LEFT TURN COLLISION
- ← OUT OF CONTROL
- MOVING VEHICLE
- PROPERTY DAMAGE
- REAR END COLL.
- PERSONAL INJURY
- FATAL ACCIDENT

INTERSECTION SR 81 @ CLAUDE BREWER/TOM BREWER

COUNTY WALTON CITY _____ DIV. ONE

PERIOD 12 MONTHS FROM 09-01-98 TO 09-30-99

BY SHANE DOVER DATE 12-3-99

ACCIDENT SUMMARY

TIME OF DAY	NO. ACC'S	DRIWER RESIDENCY (BY COUNTY)
6 A.M. - 10 A.M.	3	RESIDENT
10 A.M. - 4 P.M.	4	NON-RESIDENT
4 P.M. - 7 P.M.	1	
7 P.M. - 12 MID	1	
12 MID - 6 A.M.	1	
TOTAL	9	TOTAL

DRIWER AGE	NO.	TYPE ACCIDENT
15-24	5	SIDESWIP E
25-34	4	REAR END
35-44	3	RT. ANGLE
45-54	3	LEFT TURN
55-64	5	OTHER
65-OVER	2	
TOTAL	19	TOTAL

PAVEMENT	NO. ACC'S	ACCIDENT SEVERITY
DRY	8	FATAL
WET	1	NON-FATAL
ICY	1	PROP. DAM.
TOTAL	9	TOTAL

TIME OF YEAR	NO. ACC'S	TYPE OF VEHICLE
WINTER DEC-FEB	2	PASSENGER CAR
SPRING MAR-MAY	2	TRUCKS
SUMMER JUNE-AUG	3	OTHER
FALL SEPT-NOV	2	
TOTAL	9	TOTAL

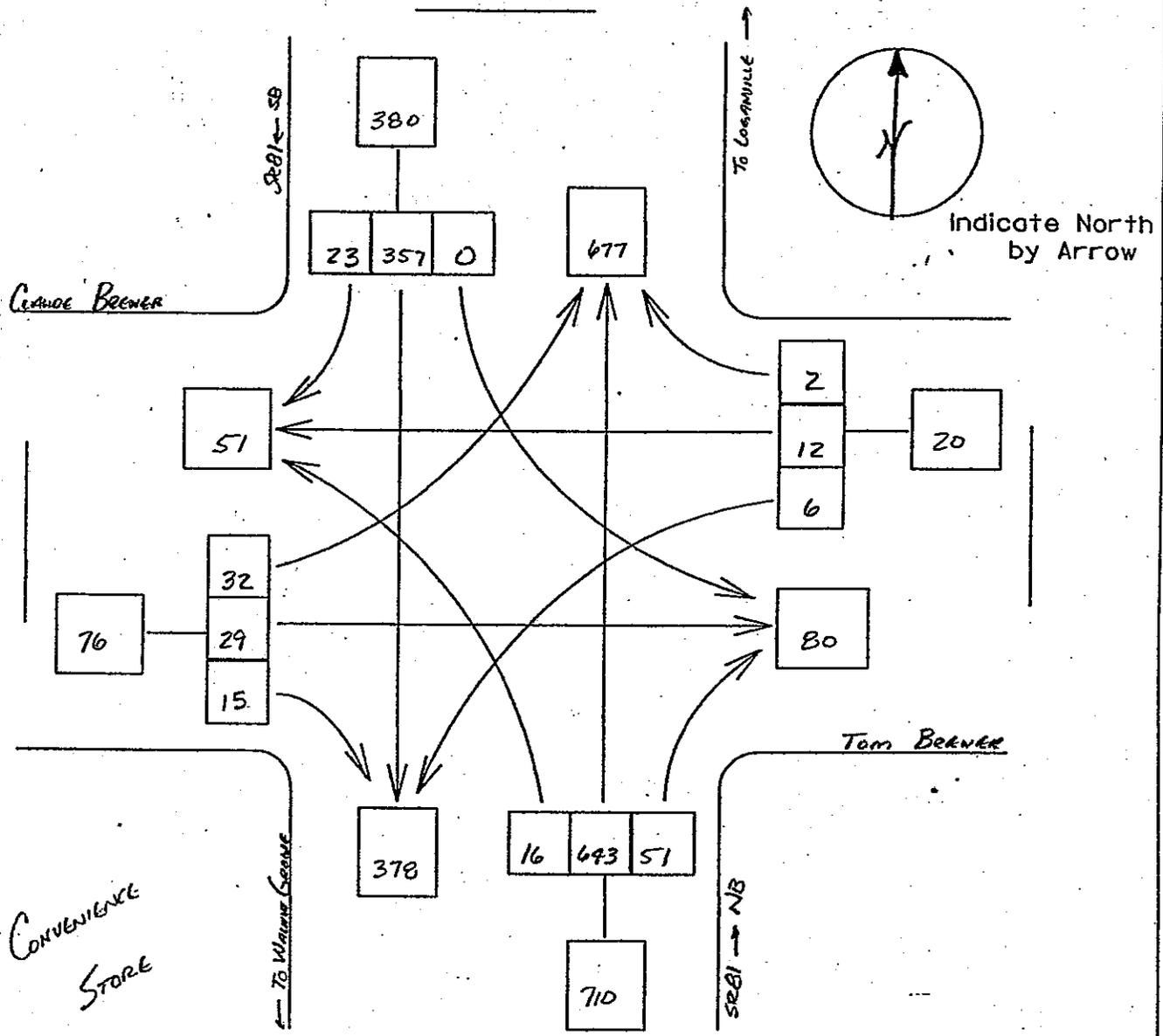
TRAFFIC COUNT SUMMARY SHEET

City _____ County WALTON

Location SR 81 @ Claude Brewer / Tom Brewer Ros

Day _____ Date 11/30/99 Hours 7 To 8 Time 1 Hrs.

Weather Sunny Road Surface Cond. Dry



Remarks 2 TO 3 CARS SIDEROAD DELAY, LITTLE LEFT DELAY

Compiled by: LSO Date: 11/30/99

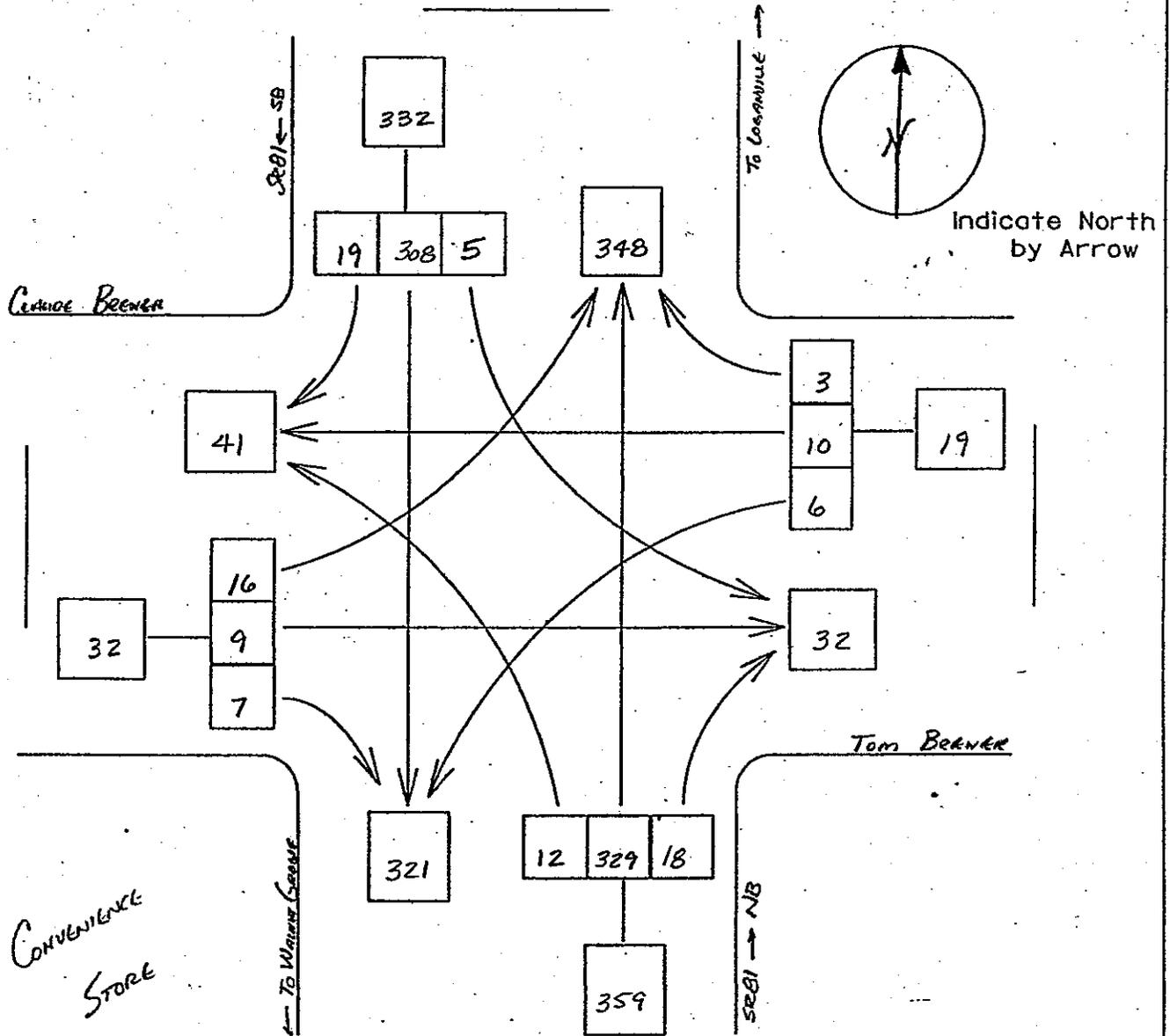
TRAFFIC COUNT SUMMARY SHEET

City _____ County WALTON

Location SR 81 @ Claude Brewer / Tom Brewer Rds

Day _____ Date 11/30/99 Hours 12 To 1 Time 1 Hrs.

Weather SUNNY Road Surface Cond. Day

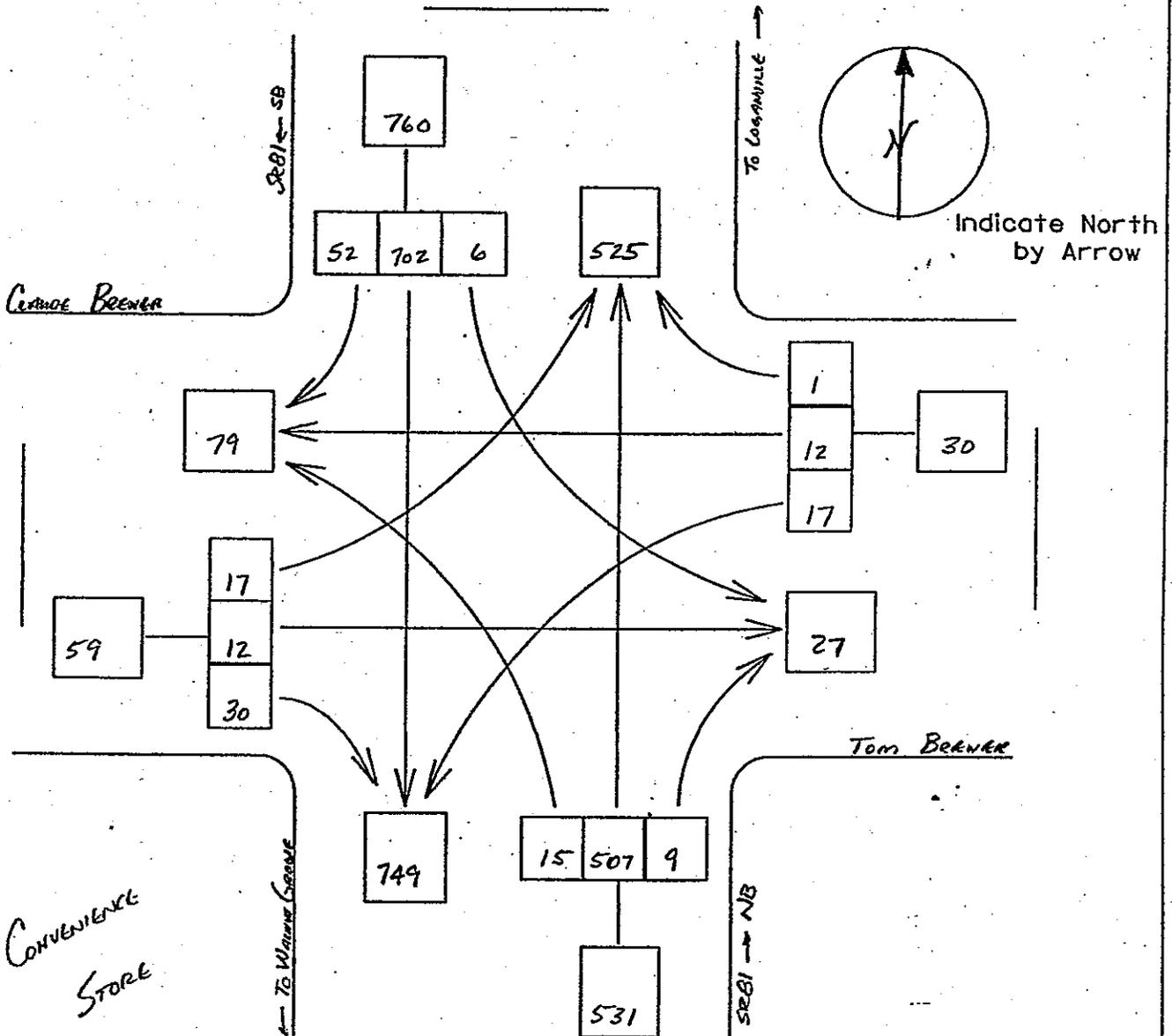


Remarks Little Delay, Little Queuing

Compiled by: LSD Date: 11/30/99

TRAFFIC COUNT SUMMARY SHEET

City _____ County WALTON
 Location SR 81 @ GUNNIE BREWER / TOM BREWER RD
 Day _____ Date 11/30/99 Hours 5 To 6 Time 1 Hrs.
 Weather Sunny Road Surface Cond. Dry



Remarks LITTLE DELAY, QUEUING

Compiled by: LSD Date: 11/30/99



