

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

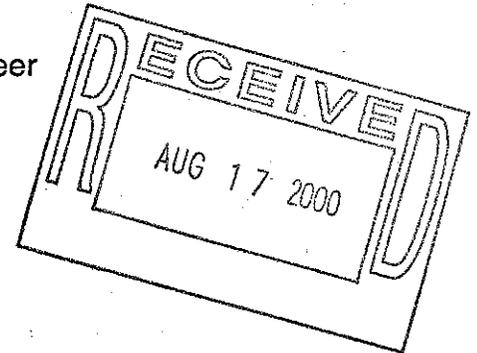
INTERDEPARTMENT CORRESPONDENCE

FILE: STP-0001-00(239), Cobb County
P.I. No.: 0001239
SR 360 @ CR 809/Corner Rd. & CR 2083 & 811/Bullard Rd.
Intersection Improvements

OFFICE: Traffic Operations
Atlanta, Georgia
DATE: August 14, 2000

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

TO: Steve Henry, District Engineer, Chamblee
Attn: Mike Malcolm



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 reconstruction of SR 360 & CR 809/Corner Rd. These two roads will be reconstructed to provide left turn lanes on all approaches. The existing traffic signal will be replaced with a traffic signal with protected/permissive left turns. CR 2083 & 811/Bullard Rd.'s will be reconstructed to provide right in/right out type intersection.

By copy of this letter, this office is transmitting a copy of the approved concept report to the Office of Environmental/Location for their use in performing the appropriate environmental studies.

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.
- Yancy Bachmann, w/attach.
- Dick Graves, w/attach.
- General Files

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

PROJECT CONCEPT REPORT

COBB COUNTY

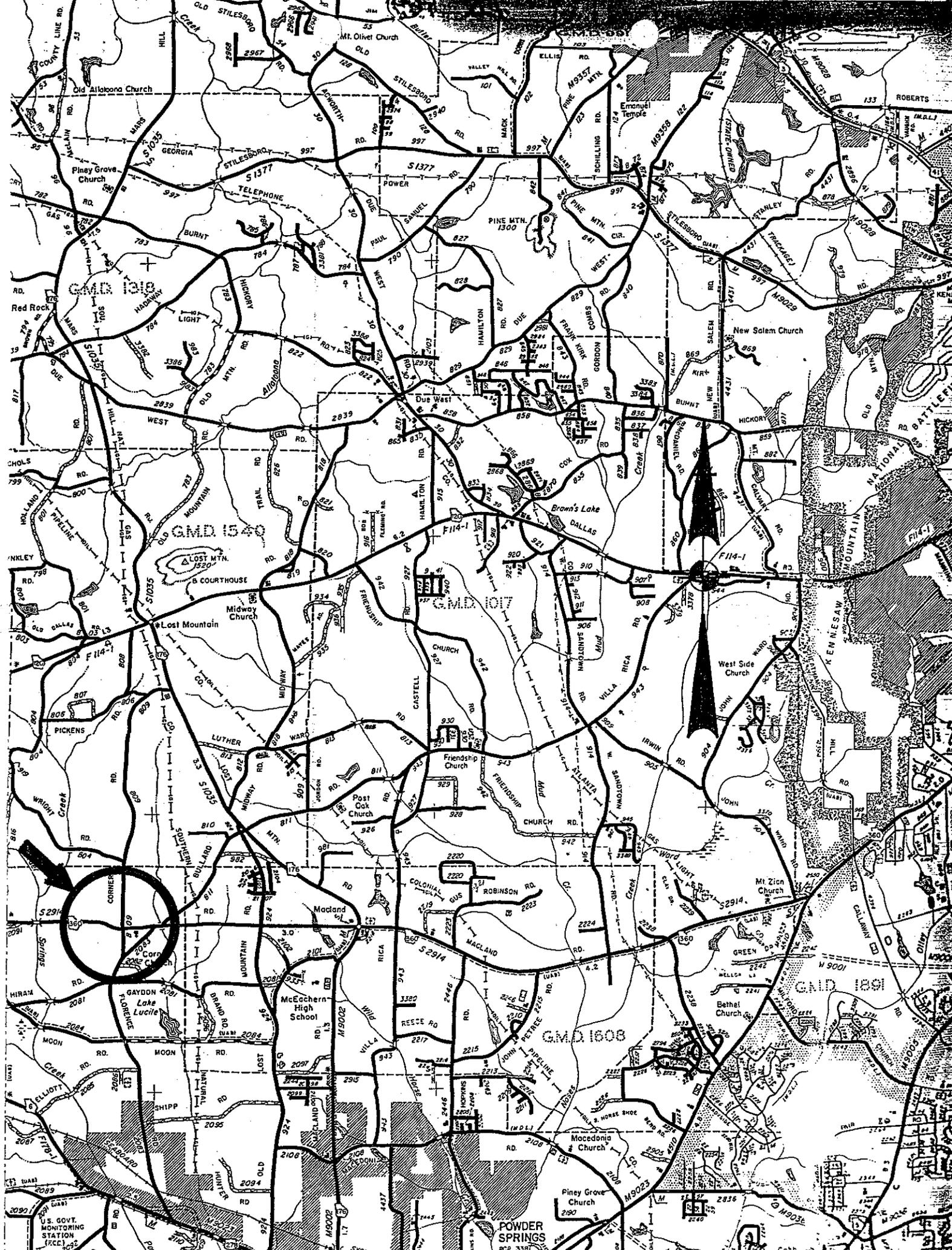
STP-0001-00(239)

FEDERAL ROUTE NO:
STATE ROUTE NO: 360
GADOT P.I. NO: 0001239

SEE ATTACHED
LOCATION SKETCH

Date of Report: March 08, 2000

RECOMMENDED:	<u>3-9-2000</u>	<u><i>Marion H. Waters</i></u>
	DATE	STATE TRAFFIC OPERATIONS ENGINEER
RECOMMENDED:	<u>3/17/2000</u>	<u><i>[Signature]</i></u>
	DATE	DISTRICT ENGINEER
RECOMMENDED:	<u>4/18/00</u>	<u><i>[Signature]</i></u>
	DATE	CHIEF ENGINEER
APPROVED:	<u>4-18-00</u>	<u><i>Wayne Shackelford</i></u>
	DATE	COMMISSIONER



POWDER SPRINGS
PCF 3381

U.S. GOV'T.
MONITORING
STATION
FCC 1-32

PROJECT CONCEPT REPORT

P.I. No.: 0001239

Project No.: STP-0001-00(239) Cobb County

Route No.: SR 360
CR 809/Corner & Florence Roads
CR 2083/Bullard Road
CR 811/Bullard Road

Location: The intersection of SR 360 @ CR 809, CR 2083 & CR 811 are located approximately 1.01, 1.26 & 1.35 miles east of the Paulding County Line and 9.52, 9.27 & 9.18 west of the City Limits of Marietta in Cobb County.

Description: S.R. 360 will be widened 6 feet symmetrically to provide a left turn lane. CR 809 will be widen 6 feet symmetrically to provide a left turn lane. CR 2083 will be realigned to improve sight distance and will be a Right-in/Right-out type intersection. CR 811 will be realigned /relocated and widened to provide both left & right turn lanes. This relocation will improve sight distance and safety.

Traffic – Current ADT: SR 360 ----- 9,400 (1998 ADT)
CR 809 ----- 23,750 (1998 ADT)
CR 2083 ----- 1,810 (1998 ADT)
CR 811 ----- 1,810 (1998 ADT)

Existing Typical: SR 360: 2 – 12 ft. travel lanes, one in each direction, with variable grassed shoulders.
CR 809, 2083 & 811: 2 – 11 ft. travel lanes, one in each direction, with variable grassed shoulders.

Existing Right of Way: SR 360 ----- 80' (Estimated)
CR 809 ----- 50' (Estimated)
CR 2083 ----- 50' (Estimated)
CR 811 ----- 40' (Estimated)

Existing Traffic Control: SR 360 & CR 809 is controlled with a traffic signal. CR 2083 & 811 are controlled by stop ahead signs, stop signs and stop bars.

Existing Major Structures: None.

Statement of Need & Purpose: Accident history for SR 360 @ CR 809 shows 35/42 (83%) of the accidents over a four year period were angle intersecting. The recent installation of a traffic signal at this location will help eliminate the accident history along with the addition of left turn lanes on all approaches. The operational improvements to the intersections of SR 360 @ CR 2083 & CR 811 will greatly enhance the operational efficiency of this intersection. To improve the safety and orderly progression of traffic through the intersections, these improvements are recommended.

Bike & Pedestrian Considerations: Sidewalk will be included within the project limits.

Length: 0.87 miles

<u>Termini:</u>	- SR 360 -	- CR 809 -	- CR 2083 -	- CR 811 -
<u>From M.P.:</u>	0.90	0.12	2.71	2.55
<u>To M.P.:</u>	1.39	0.38	2.75	2.64

PDP Class: Minor Existing

<u>Functional Class:</u>	SR 360	-----	Urban Minor Arterial
	CR 809	-----	Urban Principal Arterial
	CR 2083	-----	Urban Local Street
	CR 811	-----	Urban Local Street

Max Degree of Curve: +/- 17.5 Degrees **Max Grades:** +/- 5.0%

Design Speed: 45 mph – SR 360; 35 mph - CR 809, 2083 & 811

Proposed Typical Section: SR 360: 2 – 12 ft. travel lanes, one in each direction, a 12 ft. left turn lane in both directions, with curb & gutter with sidewalk.

CR 809: 2 – 12 ft. travel lanes, one in each direction, with a 12 ft. left turn lane in both directions.

CR 2083: will be realigned for a Right-in/Right-out roadway. Travel lanes will be 16' wide through the radius.

CR 811: 2 – 12 ft. travel lanes, one in each direction, with a 12 ft. left turn lane.

Proposed major structures: None.

Type Access: By Permit.

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

Right-of-Way Requirement: Georgia Department of Transportation shall be responsible for the acquisition of all Required Right-of-Way for this project.

Utilities: Georgia Department of Transportation shall be responsible for all Utility adjustments.

Estimated Cost:

<u>Item</u>	<u>Total Amount</u>
R/W -----	\$ 153,000 (GaDOT)
Utilities -----	\$ 78,600 (GaDOT)
Estimated LGPA Total -----	\$ 231,600
Construction -----	\$ 463,056
Traffic Signal -----	\$ 0
Railroad Equipment -----	\$ 0
E & C 10% -----	\$ 46,306
Total Construction -----	\$ 509,362

Permits Required: None.

Level of Environmental Analysis: Categorical Exclusion.

Level of Public Involvement: None.

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

Design Variances Required: None.

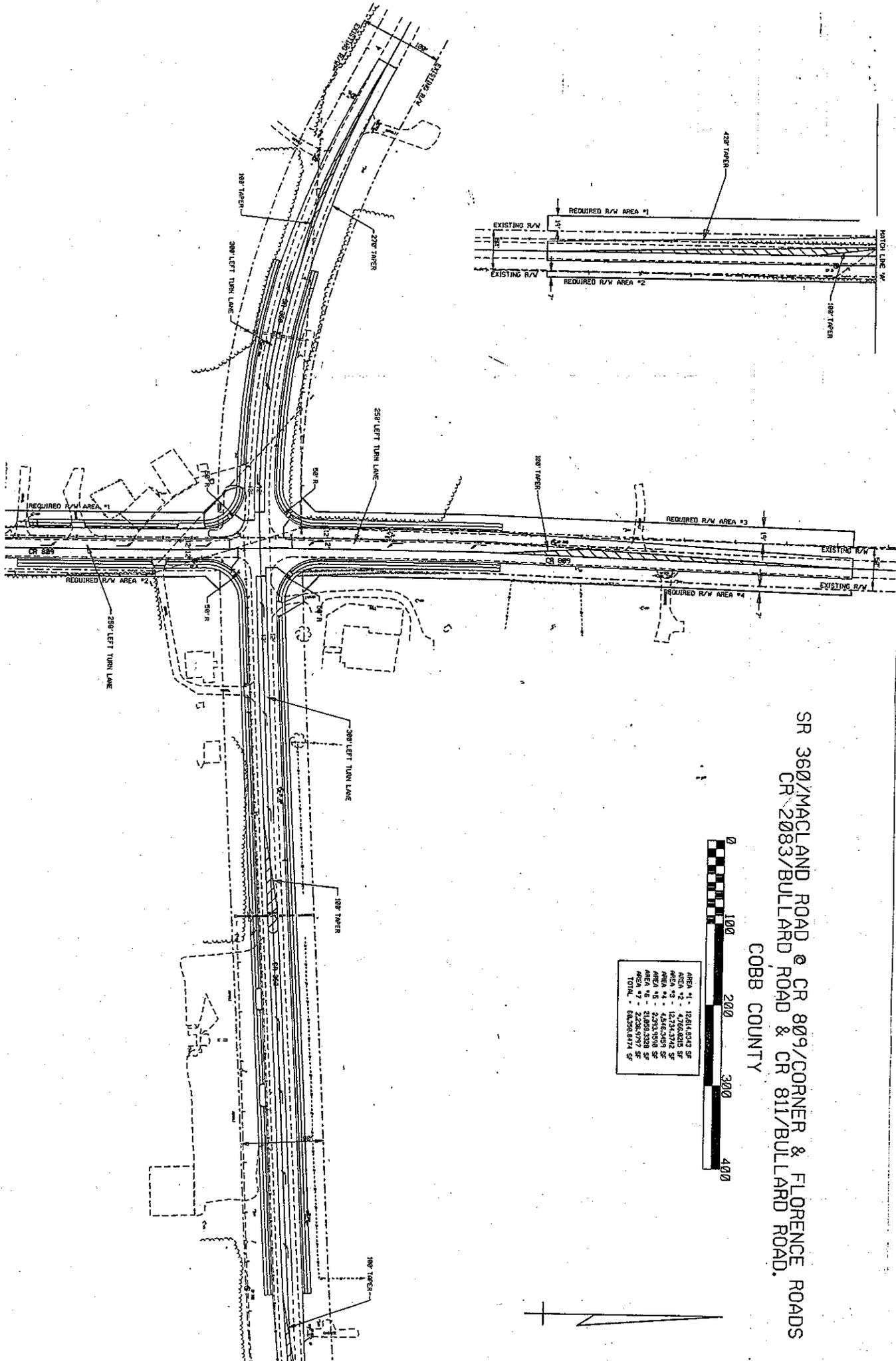
Alternatives Considered: None.

Comments: None.

Prepared By:



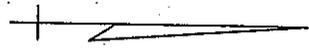
Ken Werho

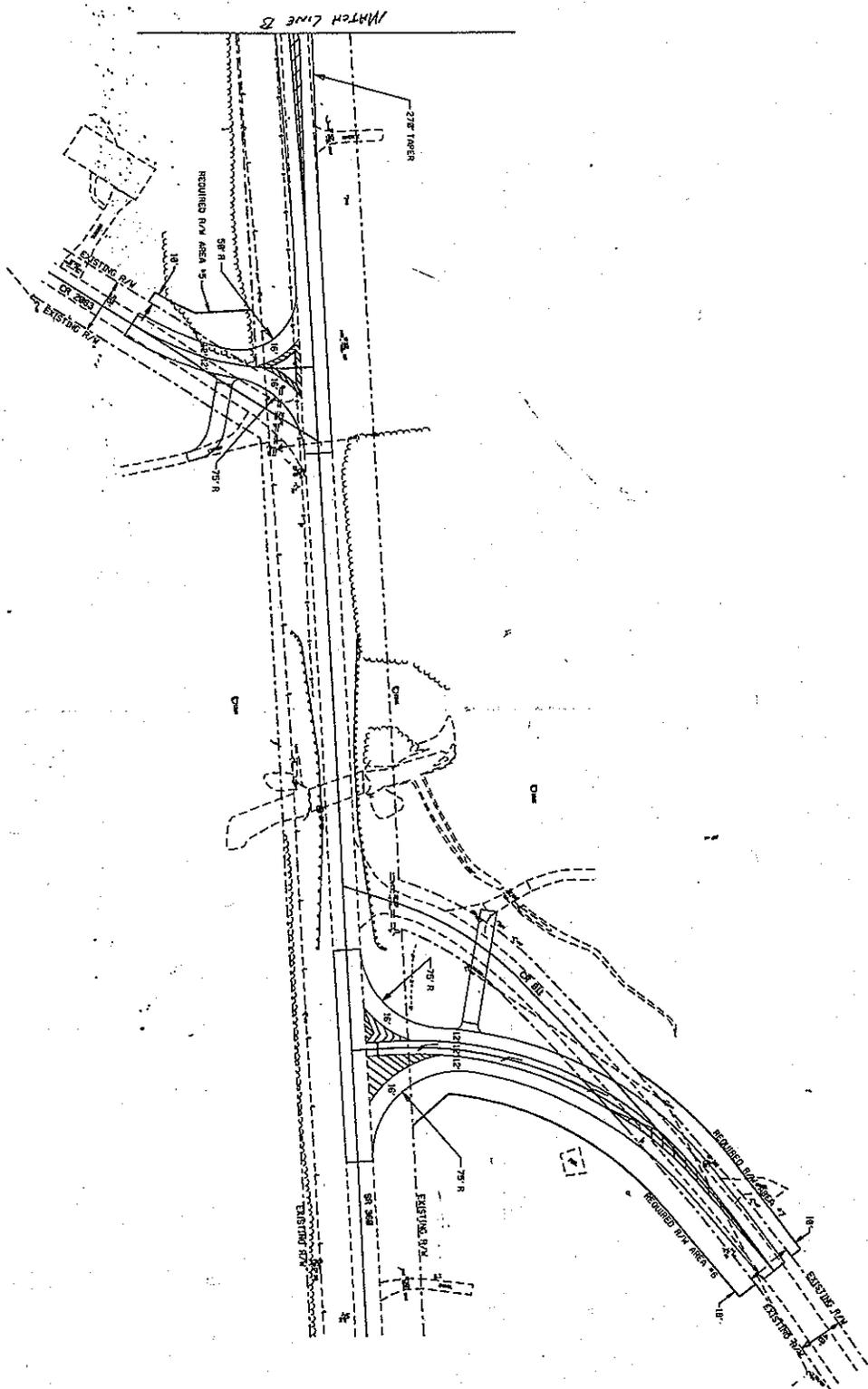


SR 360/MACLAND ROAD @ CR 809/CORNER & FLORENCE ROADS
 CR 2083/BULLARD ROAD & CR 811/BULLARD ROAD.
 COBB COUNTY



AREA #1	12814324 SF
AREA #2	47668215 SF
AREA #3	44662105 SF
AREA #4	44662105 SF
AREA #5	23933508 SF
AREA #6	218093328 SF
AREA #7	22286979 SF
TOTAL	682591874 SF





SR 360/MACLAND ROAD @ CR 809/CORNER & FLORENCE ROADS
 CR 2083/BULLARD ROAD & CR 811/BULLARD ROAD.
 COBB COUNTY



DEPARTMENT OF TRANSPORTATION

STATE OF GEORGIA

INTERDEPARTMENTAL CORRESPONDENCE

File: State Route 360 (Macland Road) at
Corner Road, Florence Road

Office: District Seven
Traffic Operations


From: Gene M. Bachmann, District Traffic Engineer

Date: September 30, 1999

To: Marion G. Waters, III, P.E., State Traffic Operations Engineer
Attn. : Melinda Boothe, Signal Permit Engineer

Subject: Traffic Signal Permit Request, Cobb County, Milelog 1.01
State Route 360 (Macland Road) at Corner Road and Florence Road

At the request of Cobb County, we have performed a review of traffic signal study documentation and conducted a field investigation of the intersection of State Route 360 (Macland Road) and Corner Road and Florence Road in western Cobb County.

Based on the information provided by Cobb County and this office, a traffic signal study was conducted to determine if a traffic signal was warranted at this intersection. The MUTCD guidelines for Warrant 1 were satisfied for 7 hours. Traffic Signal Warrant 6, accident history, was satisfied with 16 right angle accidents during 1998. 1999 accident information is currently not available. Warrants 9 and 11 were also satisfied based on the volume information provided. Attached for your information and review is the study information provided by Cobb County with a signed signal application. The enclosed traffic signal design was prepared by District offices.

It is the opinion of this office that, based on the traffic signal study information provided and reviewed, accident history, and a review of the field conditions, a traffic signal permit be issued to Cobb County to erect and maintain a new traffic signal at the intersection of State Route 360 (Macland Road) and Corner Road, Florence Road. In addition, we recommend a safety improvement project for the intersection to include left turn lanes for east and westbound traffic on State Route 360, as well as improvements on Corner Road and Florence Road to include left turn and through lanes for both approaches. Conceptual drawings of our recommendations for the safety improvements will be forwarded to your office when completed.

If you have any questions, or would like to further discuss this report, please contact Mike England at 770-986-1277.

GMB:MCE

cc: Ken Werho

TRAFFIC ENGINEERING REPORT

FILE: - State Route 360 (Macland Road) at
Corner Road and Florence Road
Cobb County

REASON FOR INVESTIGATION: To determine the need for signalization

TOPOGRAPHY: State Route 360 (Macland Road) is classified as an Urban Minor Arterial with a 1997 ADT of 6,700 and a 1998 ADT of 9,400, a 28 percent increase in vehicles. State Route 360 functions as an east west arterial in the western portion of Cobb County, extending from the Cobb, Paulding County line to the City of Marietta. At this intersection, State Route 360 is a two-lane roadway surrounded by sparse, rural development. Westbound 360 approaching the intersection is on an approximate uphill grade of 5 percent with the approach leveling at the intersection. Eastbound 360 has a horizontal reverse curve section approaching the intersection, and is on a level grade with the side streets at the intersection. There are grass shoulders on each side of State Route 360 in this area of Cobb County. Eastbound sight distance approaching the intersection is approximately 400 feet, due to a horizontal curve. Westbound sight distance approaching Corner Road is limited to approximately 500 feet due to a vertical curve.

Corner Road, on the north side of the intersection, is a rural, two-lane Cobb County road that connects State Route 360 and Old Lost Mountain Road. Corner Road has developing residential subdivisions, but is primarily rural in nature. The road functions as a collector roadway and intersects 360 on a slight uphill grade, approximately 3 percent, at the intersection. Lane widths are approximately 10 feet and the road has grass shoulders.

Florence Road, on the south side of the intersection is also a rural Cobb roadway, with subdivision growth, and agricultural areas. Florence Road connects Macland Road and the Powder Springs area of Cobb County and is a two-lane roadway. On the south end, Florence Road intersects with State Route 6 within the City of Powder Springs. Florence Road acts as a connecting roadway for this area of Cobb County. Northbound Florence Road intersects 360 on a slight uphill grade of 2 percent at the intersection.

There is a small commercial business located on the southwest corner of the intersection. The paved parking area of this business has open frontage along eastbound State Route 360 and on Florence Road.

VEHICLE VOLUMES: The following vehicle volumes were taken from the Cobb County traffic signal study:

	<u>7:00 - 8:00</u>	<u>17:00 - 18:00</u>	<u>24 Hour</u>
State Route 360 (combined approaches)	572	696	6922
Corner Rd/ Florence Rd (combined approaches)	495	312	4431

VEHICLE SPEEDS: The posted speed limit on State Route 360 is 45 MPH. Posted speed limits for Corner Road and Florence Road are 35 miles per hour.

PEDESTRIAN MOVEMENTS: No pedestrians were observed, however, there is a small commercial store on the southwest corner of the intersection that serves the community as well as homes on the northeast and southeast corners of the intersection.

EXISTING TRAFFIC CONTROL: The intersection is controlled by double indicated STOP signs on Corner Road and Florence Road approaches. The advance warning signs are in place for the stop condition on these approaches. Pavement markings on these roads are in good to fair condition.

State Route 360 is the through roadway and does not stop. Double indicated advance warning signs are in place with advisory speed plates (35 MPH) on the east and westbound approaches to the intersection. A no passing zone sign is posted on the east-side of the intersection for eastbound traffic and pavement markings, in excellent condition, indicate no passing on each approach to the intersection.

FUTURE PROJECTS: There are no current plans for improving 360 in the area of this intersection. However, we recommend a safety project for this intersection to include: Widening State Route 360 to include left turn lanes for east and westbound approaches, based on the posted speed limit; widening Corner Road and Florence Road approaches to include left turn and through lanes based on posted speed limit; road shoulder improvements to create standard road shoulder sections on all approaches to the intersection.

ACCIDENTS: Accident information provided by Cobb County shows 18 right angle accidents, 11 of which involved northbound vehicles from Florence Road.

HISTORY: Previous reviews of this intersection include correspondence with Cobb County recommending additional warning sign installation. Additional warning signs (W2-1) with advisory plates were installed by District Maintenance forces in 1998, to supplement the existing warning signs on State Route 360 approaches to the intersection. Cobb County was to review the intersection for possible flashing intersection beacon or signalization, and forward their recommendation and request to our offices after a review period, in 1999.

CONCLUSION: Based on the traffic signal study performed by Cobb County, accident information, and a field review of conditions, we recommend a traffic signal permit be issued to Cobb County. We also recommend a safety improvement project for this intersection as describe above. Information provided by Cobb County is attached for your review.

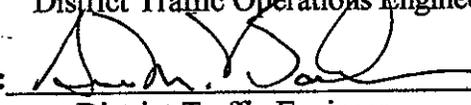
State Route 360 (Macland Road) at
Corner Road and Florence Road
Cobb County
Page 3

RECOMMENDATIONS:

- 1) A permit be issued to Cobb County for the installation of a Stop and Go traffic signal at State Route 360 (Macland Road) and Corner Road and Florence Road.
- 2) Cobb County shall be responsible for all of the equipment and materials necessary for the installation of a traffic signal at this intersection.
- 3) A Safety Improvement Project be prepared to include left turn lanes on State Route 360 and Corner Road and Florence Road approaches as described in this report.

RECOMMENDED BY: 
District Traffic Operations Engineer

DATE: 9.30.99

RECOMMENDED BY: 
District Traffic Engineer

DATE: 10.5.99

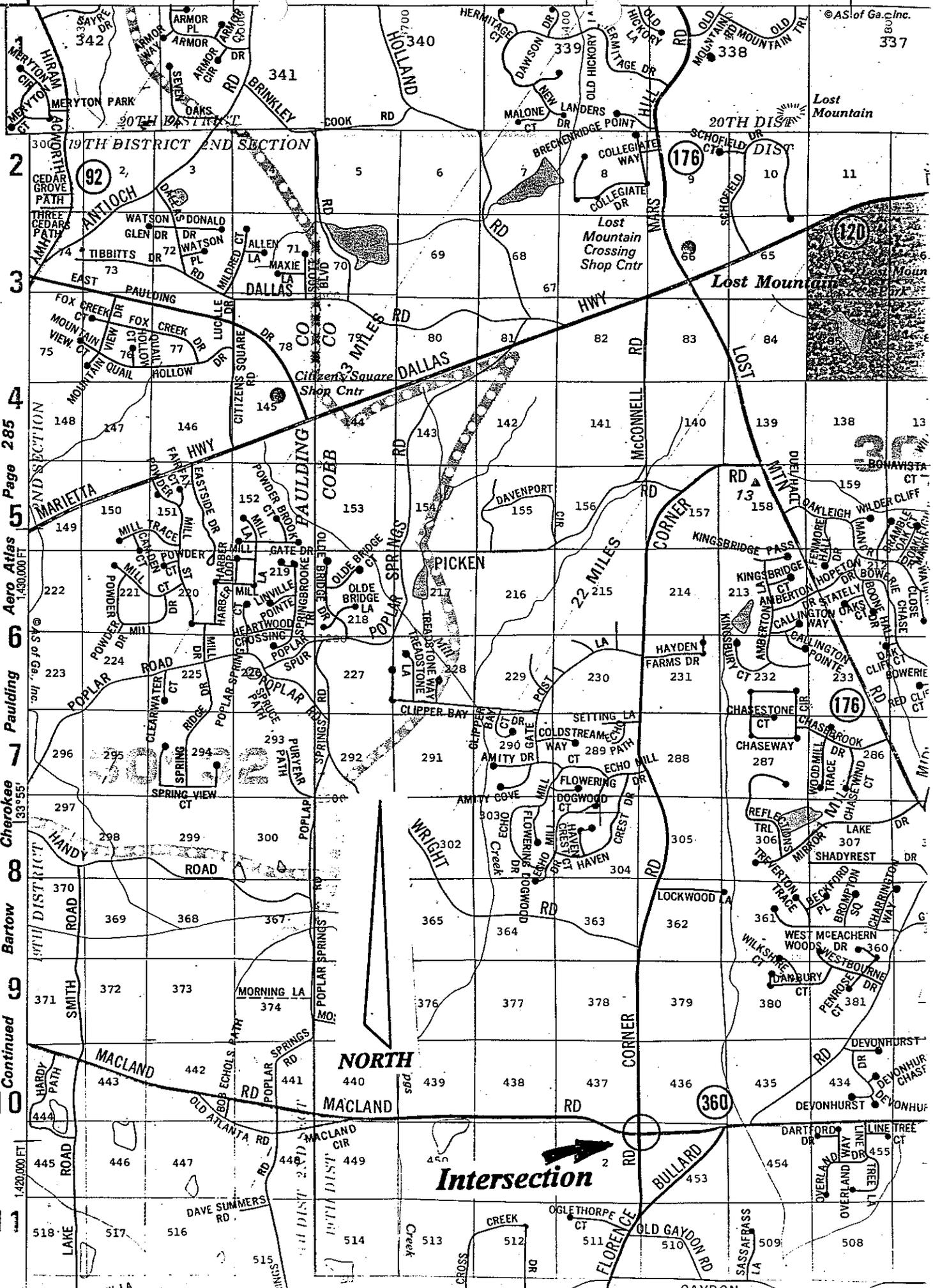
RECOMMENDED BY: _____
State Traffic Operations Engineer

DATE: _____

APPROVED BY: _____
Director Of Operations

DATE: _____

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1:420,000 FT
1:430,000 FT

Page 285
Paulding
Cherokee
Bartow
Continued

10
11

Intersection



NORTH
MACLAND

360

2
3
4
5
6
7
8
9
10

(92)

(176)

(120)

(176)

360



DEPARTMENT OF TRANSPORTATION

1890 County Services Parkway
Marietta, Georgia 30008-4014

Phone: (770) 528-1600 Fax: (770) 528-1601

September 14, 1999

Mr. Yancey Bachmann
Georgia Department of Transportation
District Seven
5025 New Peachtree Road, NE
Chamblee, GA 30341

*LB 9/21
for review - prepare study.
we need to recommend safety
project as well.*

Dear Mr. Bachmann:

Mr. Felton Rutledge is pursuing a joint project between Cobb County and GDOT to install a traffic signal at the intersection of State Route 360 (Macland Road) and Corner Rd/Florence Rd. The attached documentation is the latest signal study effort performed by Cobb County. I have also enclosed a signal permit application for this intersection.

If you have any additional questions or need more information, please contact me at 770-528-1684.

Sincerely,

Andy Phlegar, P.E.
Traffic Signal Engineer

MEMORANDUM



TO: Michael Holt
FROM: Mike Busch *MB*
DATE: February 23, 1999
SUBJECT: Intersection Signalization Study (Macland @ Florence)

BACKGROUND

This intersection has been studied numerous times over the past several years from various signal requests. Several signal warrants were first met (marginally) in 1992, but due to money constraints and priorities, no action was taken at that time. The intersection was studied again in 1997 because of the high number of accidents. GDOT made signage improvements at this intersection in May, 1997 to try to reduce this number of accidents.

WARRANTS

When this intersection was counted in early 1997, warrants 1, 2 and 8 were satisfied for 7, 4 and 6 hours, respectively. Warrants 6, 9 and 11 were also satisfied at that time.

ACCIDENT ANALYSIS

The accident analysis at this intersection shows numerous correctable right angle accidents occurring over the past three years. In 1996 there were 14 right angle accidents, while in 1997 there were 10 and in 1998 there were 16. During the 18 months prior to GDOT's signage improvements, there were 19 right angle accidents. In the 18 months since, there have been 21. 23 of these 40 right angle accidents have included reported injuries.

RECOMMENDATIONS

This location continues to have a very high accident rate, regardless of the signage improvements. Traffic volumes have not been studied since the completion of the Macland Road widening project, but with the increase in accidents, an increase in volumes can be assumed. Considering the accident history, as well as the 1997 signal warrant analysis, I would recommend the installation of a stop-and-go traffic signal at this intersection.

Major Street Approaches:

Eastbound:

Macland Road

Data File: No Count Defined
 Count Type: None. Channel: 0. Count Date: 2/ 5/97
 Number of Lanes: 1
 Approach Speed: 45
 Total Approach Traffic: 3385

Westbound:

Macland Road

Data File: No Count Defined
 Count Type: None. Channel: 0. Count Date: 2/ 5/97
 Number of Lanes: 1
 Approach Speed: 45
 Total Approach Traffic: 3537

Minor Street Approaches:

Northbound:

Florence

Data File: No Count Defined
 Count Type: None. Channel: 0. Count Date: 2/ 5/97
 Number of Lanes: 1
 Approach Speed: 45
 Total Approach Traffic: 1889

Southbound:

Corner Road

Data File: No Count Defined
 Count Type: None. Channel: 0. Count Date: 2/ 5/97
 Number of Lanes: 1
 Approach Speed: 35
 Total Approach Traffic: 2542

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

Hour Begin	Main (Total)	Side			Warrant 1		Warrant 2		Warrant 8	
		Vol.	Dir.	Rank	Meets?	Criteria	Meets?	Criteria	Meets?	Criteria
0	70	22	N	19		105		52		84
1	50	7	N	21		105		52		84
2	12	7	N	22		105		52		84
3	15	2	S	24		105		52		84
4	28	4	N	23		105		52		84
5	70	22	S	20		105		52		84
6	342	79	S	13		105	SIDE	52		84
7	573	340	S	2	--BOTH--	105	--BOTH--	52	--BOTH--	84
8	572	495	S	1	--BOTH--	105	--BOTH--	52	--BOTH--	84
9	376	210	S	5	--BOTH--	105	SIDE	52	SIDE	84
10	257	127	S	8	SIDE	105	SIDE	52	SIDE	84
11	216	74	S	14		105	SIDE	52		84
12	258	57	S	16		105	SIDE	52		84
13	249	80	S	12		105	SIDE	52		84
14	281	82	S	11		105	SIDE	52		84
15	327	100	S	10		105	SIDE	52	SIDE	84
16	462	116	S	9	--BOTH--	105	SIDE	52	--BOTH--	84
17	651	161	S	6	--BOTH--	105	--BOTH--	52	--BOTH--	84
18	696	312	N	3	--BOTH--	105	--BOTH--	52	--BOTH--	84
19	523	266	N	4	--BOTH--	105	SIDE	52	--BOTH--	84
20	341	131	N	7	SIDE	105	SIDE	52	SIDE	84
21	250	74	N	15		105	SIDE	52		84
22	197	52	N	17		105	SIDE	52		84
23	106	25	N	18		105		52		84

Warrant Summary:

Rural values apply.

Warrant 1 - Minimum Vehicular Volumes

NOT SATISFIED. Required values reached for 7 hours. Criteria--Main St.: 350; Side St.: See Volume Summary.

Warrant 2 - Interruption of Continuous Traffic

NOT SATISFIED. Required values reached for 4 hours. Criteria--Main St.: 525; Side St.: See Volume Summary.

Warrant 3 - Minimum Pedestrian Volumes

NOT SATISFIED. Ped volumes too low. Criteria--190 Peds in peak hour, 100 peds in 4th high hour.

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: 16; Right Angle Accidents: 16; Left Turn Accidents: 1; Other Accidents: 4.

Warrant 7 - Systems Warrant

NOT SATISFIED. At least one street has no major approaches.

- Approaches which are part of the principal through traffic roadway network.
- Approaches which include rural or suburban highways outside, entering or traversing a city.
- Approaches which appear as a major route in an official transportation plan.

Warrant 8 - Combination of Warrants

NOT SATISFIED. Required values reached for 6 hours. Criteria--Main: 420; Side: See Volume Summary.

Warrant 9 - Four Hour Volumes

SATISFIED for 6 hours.

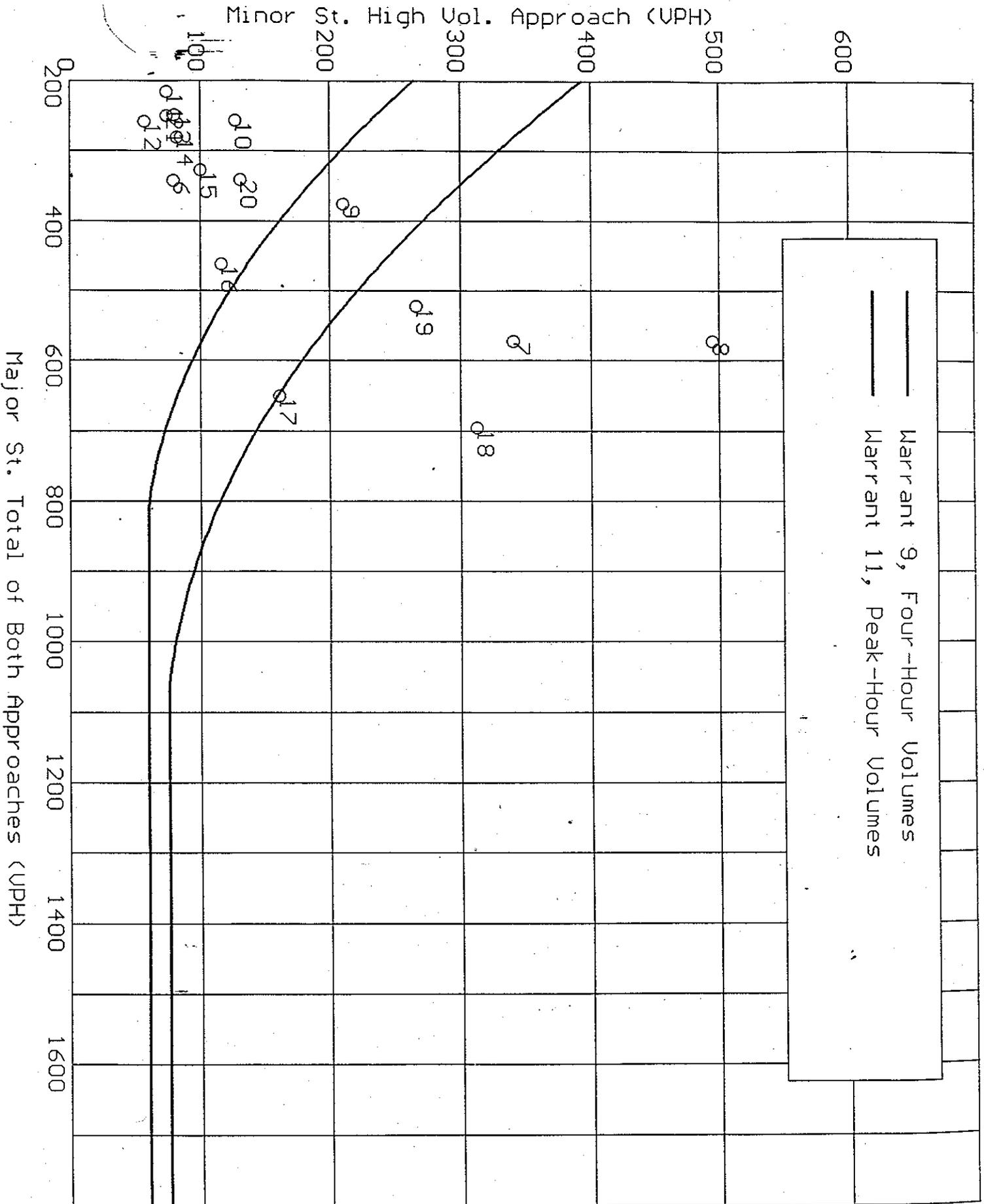
Warrant 10 - Peak Hour Delay

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 5 hours.



Macdon / Florence / Corner

12/1/95 - 11/30/96

- 14 Right Angle
- 1 Out of Control

12/1/96 - 11/30/97

- 10 Right Angle
- 1 Rear End
- 1 Left Turn

12/1/97 - 11/30/98

- 16 Right Angle
- 2 Rear End
- 2 Out of Control
- 1 Left Turn.

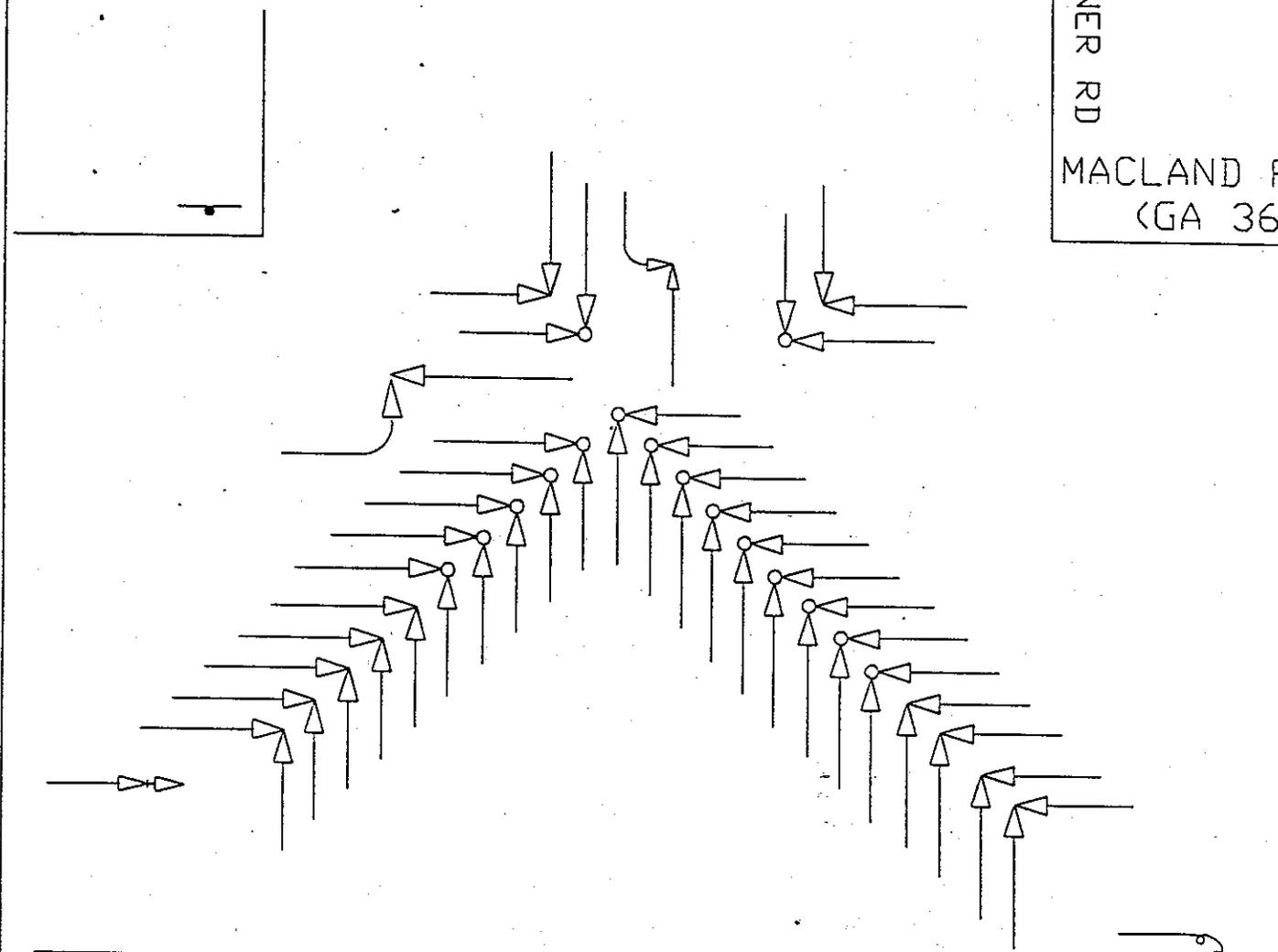
16 Right Angle accidents over
2 year period had injuries
reported.

19 Right Angle accidents in 18 months before GDOT
improvements.

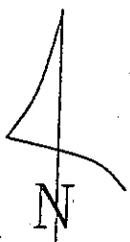
21 Right Angle accidents in 18 months since GDOT
improvements.

MACLAND RD (GA 360) @ FLORENCE RD/CORNER RD
 12/01/96 - 11/30/98 (TWO YEARS)

CORNER RD
 MACLAND RD
 (GA 360)



MACLAND RD
 (GA 360)
 FLORENCE RD



COBB COUNTY DEPARTMENT OF TRANSPORTATION
 ENGINEERING DIVISION

ACCIDENT TYPES	FATAL	INJURY	TOTAL
RIGHT ANGLE:	--	16	27
HEAD ON:	--	--	--
REAR END:	--	--	03
SIDE SWIPE:	--	--	--
LEFT TURN W/ THRU:	--	--	02
STRUCK OBJECT:	--	01	01
OTHER COLLISION:	--	--	--
TOTAL:	--	17	33

MACLAND ROAD (GA 360) @ FLORENCE ROAD/CORNER ROAD

NODES: 53381/54568

12/01/96 - 11/30/98 (TWO YEARS)

TOTAL ACCIDENTS AT INTERSECTION: 33

LOC_DESC1	DIR_DIST	LOC_DESC2	DATE_ACC	TIME	ACCNO	VEH_IN_KIL	DIR_1	MOV1_1	MOV2_1	LC_SURFACE	DESCRIP
MACLAND	0	FLORENCE	961218	830	96170427	220	N	E	5	1	1
MACLAND	0	CORNER R	970210	1516	97015113	200	N	E	5	1	1
MACLAND	0	CORNER R	970213	1753	97016307	210	S	E	5	4	2
MACLAND	0	FLORENCE	970214	1715	97016701	320	N	W	5	1	1
MACLAND	0	FLORENCE	970306	1547	97023941	200	N	E	5	1	1
FLORENCE	0	MACLAND	970626	1742	97068198	200	N	N	2	4	1
MACLAND	0	CORNER R	970706	1920	97072038	230	N	W	5	1	1
MACLAND	0	CORNER R	970712	1900	97074876	210	N	W	5	1	1
MACLAND	0	FLORENCE	970722	1745	97079375	210	N	E	5	1	1
MACLAND	0	FLORENCE	970729	1114	97083526	200	E	W	1	5	1
MACLAND	0	CORNER R	970814	1620	97088259	220	N	W	5	1	2
FLORENCE	0	MACLAND	971124	1310	97131093	200	N	E	1	5	1
MACLAND	0	FLORENCE	980210	1615	98014911	200	N	E	5	1	1
MACLAND	0	FLORENCE	980216	1319	98017284	210	W	N	5	1	1
MACLAND	0	FLORENCE	980218	1721	98018302	220	S	W	1	5	1
MACLAND	0	FLORENCE	980221	1248	98019525	200	E	E	5	2	1
MACLAND	0	FLORENCE	980222	1422	98019832	200	S	E	1	5	1
MACLAND	0	CORNER R	980228	1935	98022651	210	N	W	5	5	1
MACLAND	E100	FLORENCE	980320	1618	98030779	110	E	W	5	0	1
CORNER R	0	MACLAND	980402	1800	98037185	200	S	N	1	5	1
MACLAND	0	CORNER R	980422	1825	98044250	320	N	W	5	5	1
MACLAND	0	FLORENCE	980426	1602	98045589	210	N	W	1	5	1
MACLAND	0	FLORENCE	980428	2015	98046568	200	N	W	5	5	5
MACLAND	0	FLORENCE	980606	1851	98063728	210	N	E	5	5	1
MACLAND	0	FLORENCE	980623	1526	98071163	230	W	N	5	5	1
MACLAND	0	FLORENCE	980706	1247	98076994	200	N	W	5	5	1
MACLAND	0	FLORENCE	980708	1212	98077913	210	N	W	1	5	1
MACLAND	0	CORNER R	980806	1745	98090812	200	N	E	5	5	1
MACLAND	0	FLORENCE	980821	1930	98097579	200	W	W	5	1	1
MACLAND	0	CORNER R	980821	1442	98097421	200	S	W	1	5	1

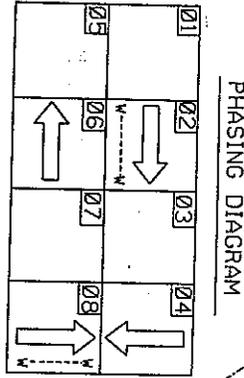
MACLAND ROAD (GA 360) @ FLORENCE ROAD/CORNER ROAD

NODES: 53381/54568

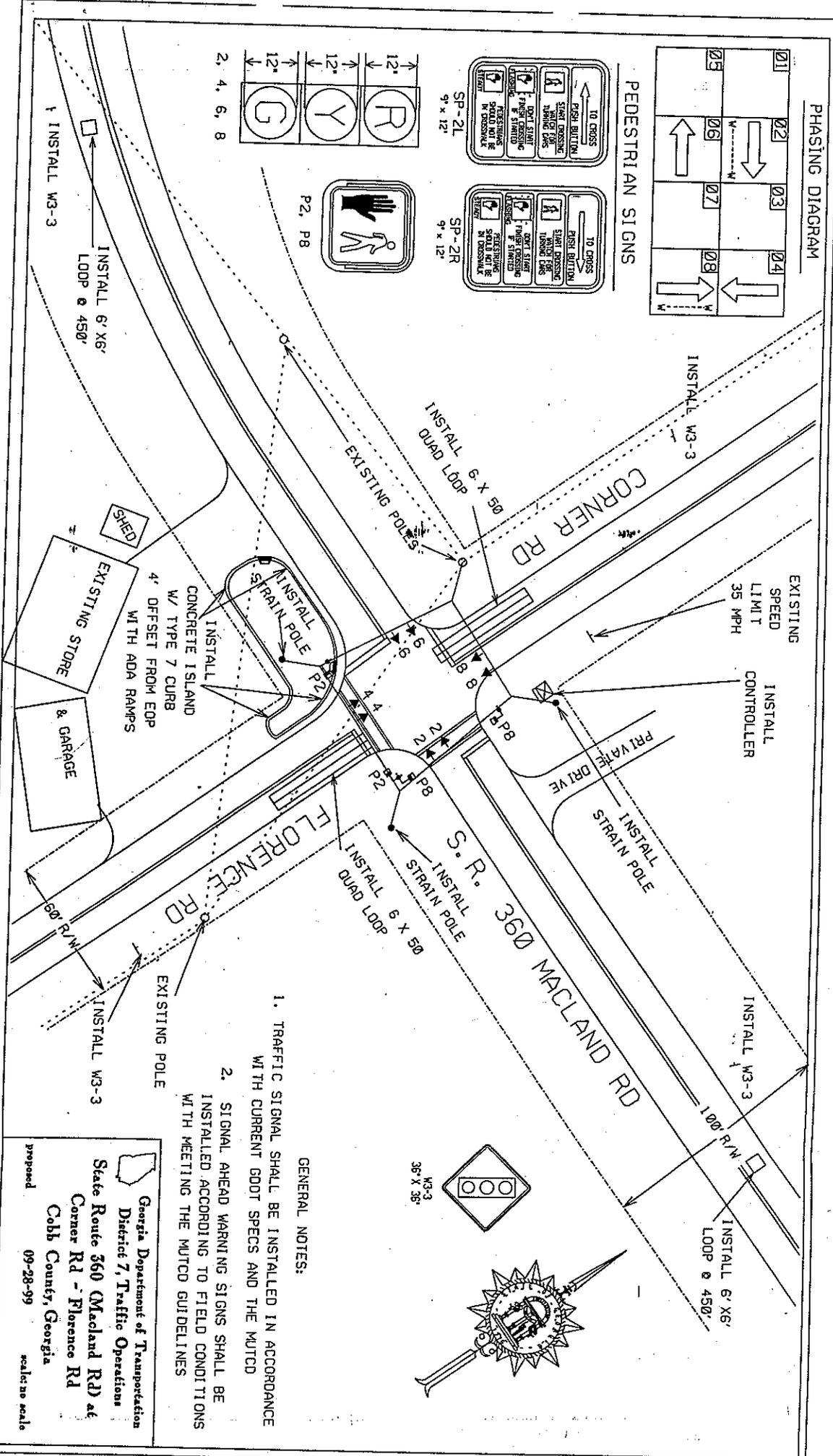
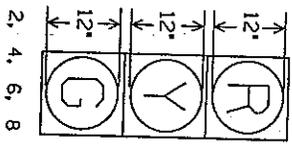
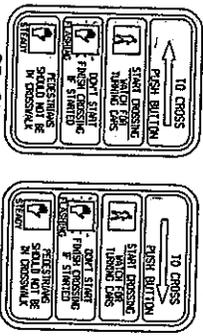
12/01/96 - 11/30/98 (TWO YEARS)

TOTAL ACCIDENTS AT INTERSECTION: 33

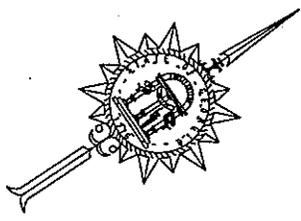
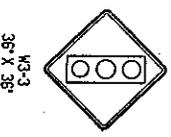
LOC_DESC1	DIR_DIST	LOC_DESC2	DATE_ACC	TIME	ACCNO	VEH_IN_KIL	DIR_1	DIR_2	MOVT_1	MOVT_2	LC	SURFACE	DESCRIP
FLORENCE	0	MACLAND	980911	0820	98107268	200	N	N	5	4	1	1	3
MACLAND	0	FLORENCE	981104	1730	98130602	200	N	E	5	5	1	1	1
MACLAND	0	FLORENCE	981104	752	98130366	210	N	E	5	5	1	1	1



PEDESTRIAN SIGNS

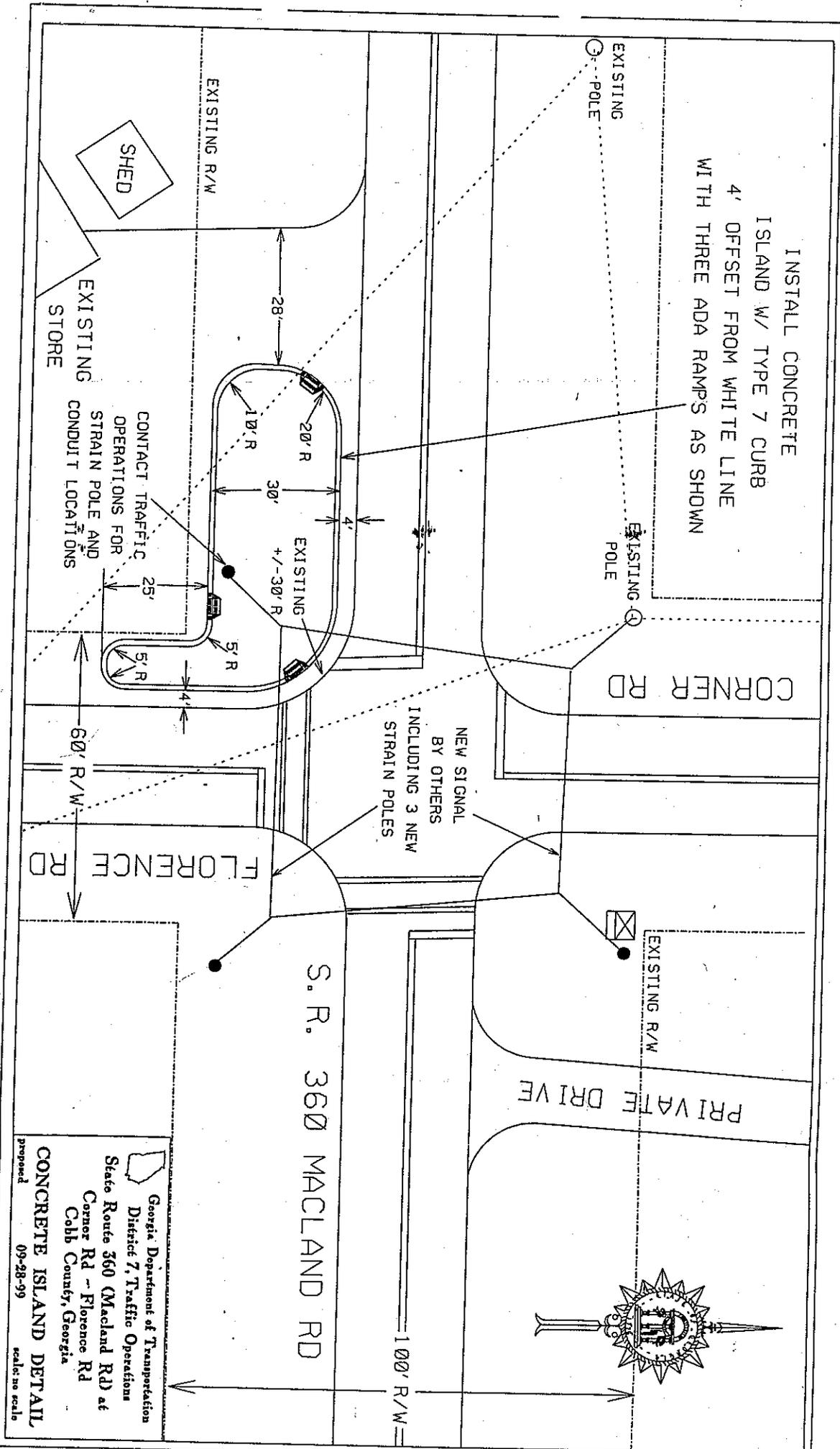


- GENERAL NOTES:
1. TRAFFIC SIGNAL SHALL BE INSTALLED IN ACCORDANCE WITH CURRENT GOVT SPECS AND THE MUTCD
 2. SIGNAL AHEAD WARNING SIGNS SHALL BE INSTALLED ACCORDING TO FIELD CONDITIONS WITH MEETING THE MUTCD GUIDELINES



Georgia Department of Transportation
 District 7, Traffic Operations
 State Route 360 (MacLaud Rd) at
 Corner Rd - Florence Rd
 Cobb County, Georgia
 proposed 09-28-99 scale: as shown

INSTALL CONCRETE ISLAND W/ TYPE 7 CURB 4' OFFSET FROM WHITE LINE WITH THREE ADA RAMP AS SHOWN



Georgia Department of Transportation
 District 7, Traffic Operations
 State Route 360 (Macland Rd) at
 Corner Rd - Florence Rd
 Cobb County, Georgia

CONCRETE ISLAND DETAIL
 prepared 09-28-99
 scale: as shown

