

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

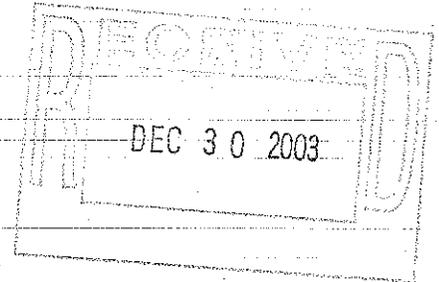
FILE: CSSTP-0001-00(933), Jackson County
P.I. No.: 0001933
SR 98 at B. Wilson/King Road

OFFICE: Traffic Safety and Design

DATE: December 29, 2003

Phillip M. Allen (KB)
FROM: Phillip M. Allen, State Traffic Safety & Design Engineer

TO: Todd Long, District Engineer - Gainesville

**SUBJECT: APPROVED CONCEPT REPORT**

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

This project consists of symmetrically widening SR 98 6-feet to provide for a left-turn lane in both directions with a 12-foot auxiliary right-turn lane. County Road 286/B. Wilson Road will be widened 12-feet to the northwest to provide a left-turn lane and align with existing through lane of King Road. County Road 536/King Road will be widened 12-feet to the northeast to provide a left-turn lane and align with existing through lane of B. Wilson Road.

The concept report indicates that local government will be responsible for Right-of-way and utility relocations. In accordance with the current policy the department will acquire right-of-way and fund all private reimbursable utilities. The Office of Traffic Safety and Design has assigned Kathy Bailey as Project Manager. An LGPA has been sent to Jackson County for relocation of all public utilities for this project. The preliminary engineering, including *environmental documentation*, will be accomplished under consultant contract.

Should you have any questions, please contact Kathy Bailey at 404-635-8134 or Kevin Stefanik of this office at 404-635-8125.

PMA:KMS

Attachments

cc: Paul Mullins, letter only
Tom Turner
David Mulling
~~Meg Pirkle~~
Percy Middlebrooks
Harvey Keepler
ATTN: Gail D'Avino
Joe Garland
General Files

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

PROJECT CONCEPT REPORT

JACKSON COUNTY

CSSTP-0001-00(933)

FEDERAL ROUTE NO:

STATE ROUTE NO: 98

GADOT P.I. NO: 0001933

SEE ATTACHED
LOCATION SKETCH

Date of Report: March 29, 2001

RECOMMENDED: 4/9/01
DATE

Marion Helton
STATE TRAFFIC OPERATIONS ENGINEER

RECOMMENDED: 4-16-01
DATE

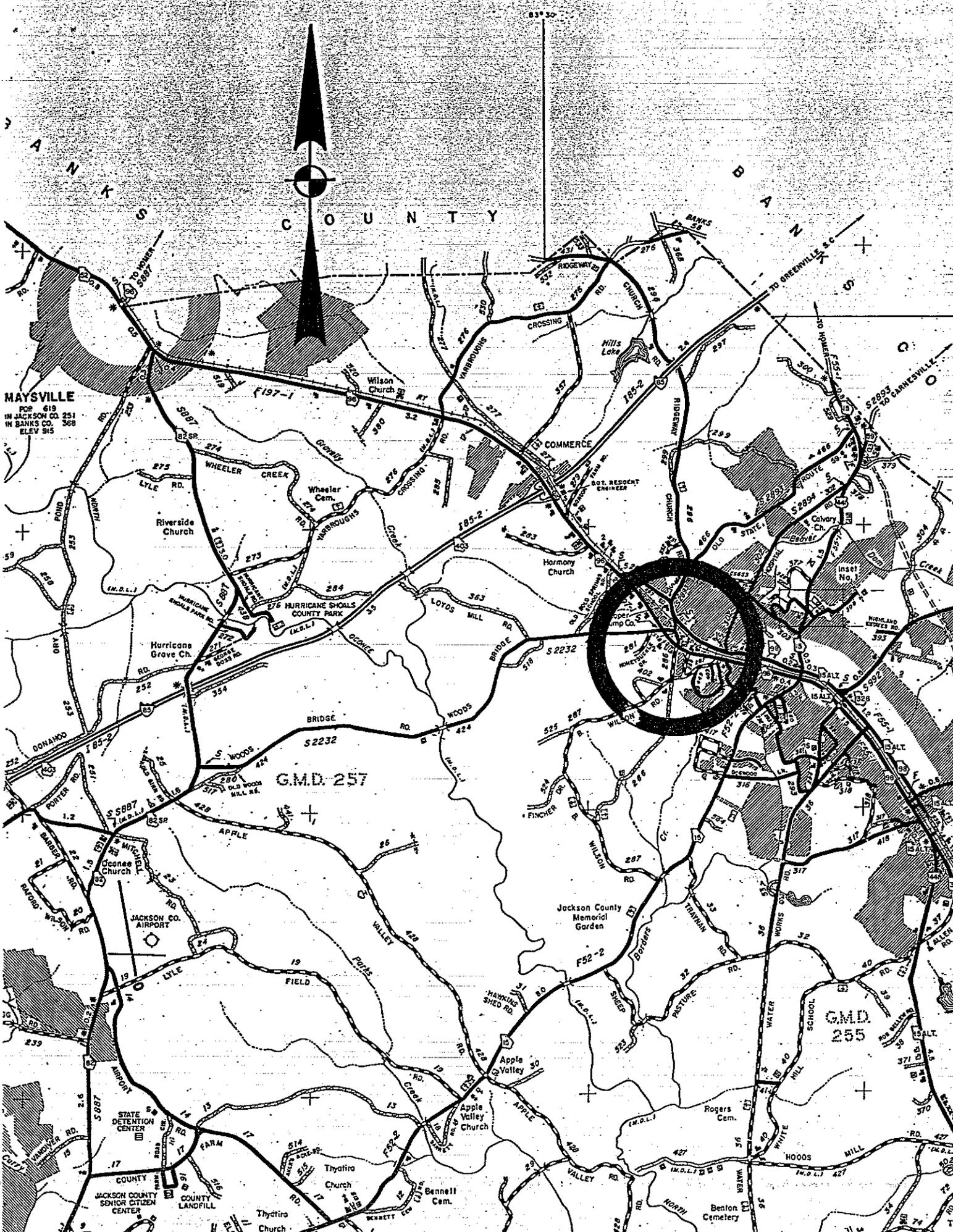
Gary E. Dent
DISTRICT ENGINEER

RECOMMENDED: 4-30-01
DATE

John K. ...
CHIEF ENGINEER

APPROVED: 5/1/01
DATE

J. Tom Calvert
COMMISSIONER

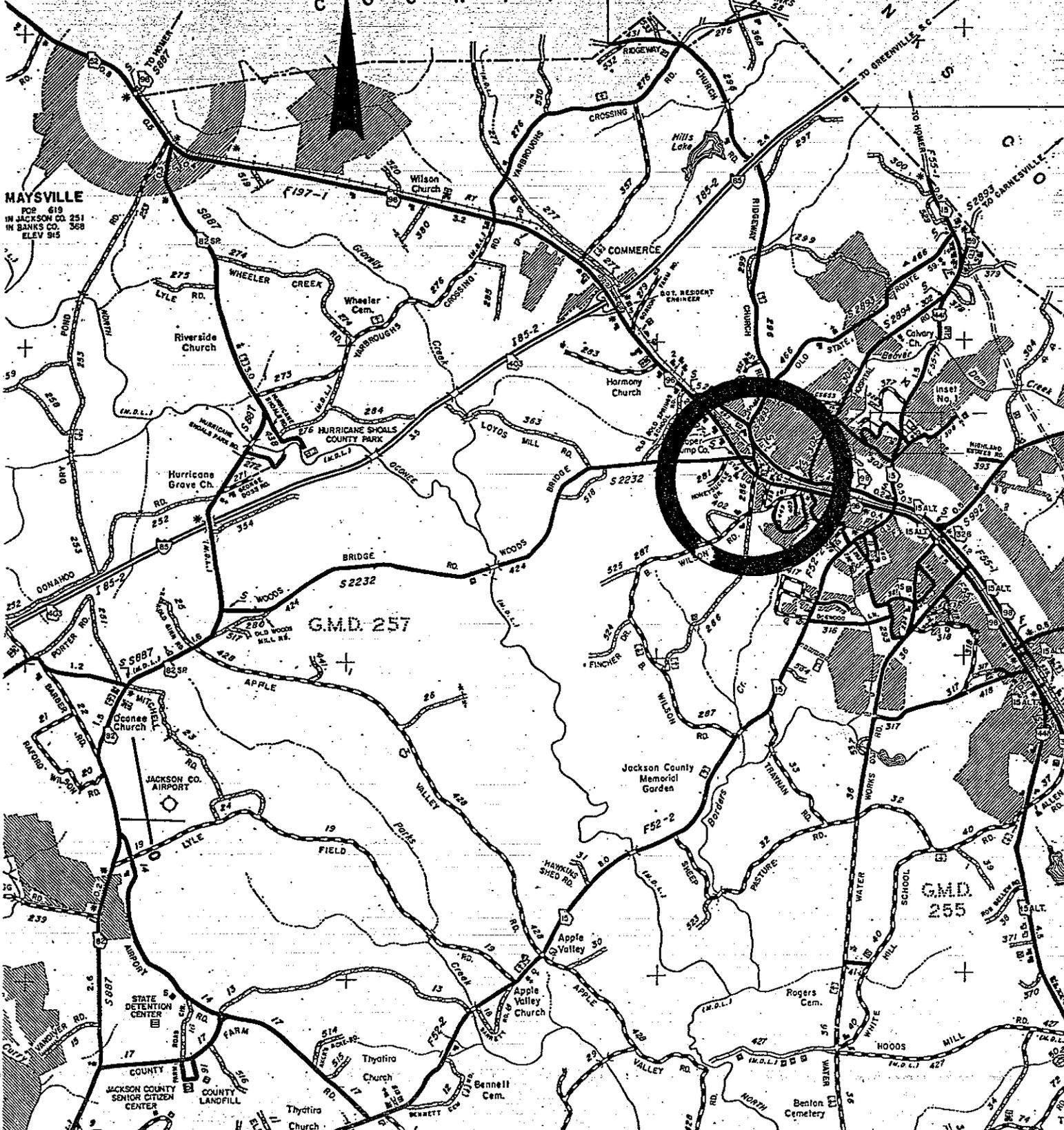


MAYSVILLE
PC2 619
IN JACKSON CO. 251
IN BANKS CO. 368
ELEV 945

G.M.D. 257

G.M.D. 255

BANKS COUNTY



JACKSON COUNTY
SENIOR CITIZEN
CENTER

JACKSON COUNTY
LANDFILL

Thyatisa
Church

Apple Valley
Church

Benton
Cemetery

WATER
MILL

Cabin
Creek

PROJECT CONCEPT REPORT

P.I. No.: 0001933

Project No.: CSSTP-0001-00(933) Jackson County

Route No.: SR 98
CR 286/B. Wilson Road
CR 536/King Road

Location: The intersection of SR. 98 @ CR 286 & 536 is located approximately 1.79 miles southeast of I-85 and 0.39 miles northwest of the City Limits of Commerce on S.R. 98 in Jackson County.

Description: SR 98 will be widened 6 ft. symmetrically to provide a left turn lane in both directions with a 12' auxiliary right turn lane.
CR 286 will be widen 12 ft. to the northwest to provide a left turn lane and align with existing through lane of King Road. Leveling will be required to bring the grade up to a 2% break over on the high side of the super elevation.
CR 536 will be widen 12 ft. to the northeast to provide a left turn lane and align with existing through lane of B. Wilson Road.

Traffic – Current ADT:

SR 98 -----	8,100 (1999 ADT)
CR 286 -----	480 (1999 ADT)
CR 536 -----	1,780 (1999 ADT)

Existing Typical: SR 98: 2 – 12 ft. travel lanes, one in each direction, with 2 ft. paved shoulders.
CR 286 & 536: 2 – 11 ft. travel lanes, one in each direction, with variable shoulders.

Existing Right of Way:

SR 98 -----	60' (Estimated)
CR 286 -----	60' (Estimated)
CR 536 -----	40' (Estimated)

Existing Traffic Control: SR 98 is a through movement. CR 286 & 536 have stop ahead signs, stop signs and stop bars.

Existing Major Structures: None.

Statement of Need & Purpose: Accident history for this intersection shows only twenty-three accidents at this location over a four year period ('95 – '98) with fifteen being angle intersecting & three 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: 0.42 miles

Termini: - SR 98 - - CR 286 - - CR 536 -

From M.P.:	5.75	0.00	0.00
To M.P.:	5.95	0.12	0.10

PDP Class: Minor Existing

Functional Class:	SR 98	-----	Rural Minor Arterial
	CR 286	-----	Rural Local
	CR 536	-----	Rural Major Collector

Max Degree of Curve: +/- 1.5 Degree

Max Grades: +/- 2.0 %

Design Speed: 45 & 35 mph.

Proposed Typical Section: SR 98 : 2 – 12 ft. travel lanes, one in each direction, with a 12 ft. left & right turn lanes in both directions.

CR 286: 2 – 12 ft. travel lanes, one in each direction, with 12 ft. left turn lane. Leveling will be required to provide a 2% break over on the high side of super to improve the sight distance.

CR 536: 2 – 12 ft. travel lanes, one in each direction, with a 12 ft. left turn lane.

Proposed major structures: None

Bike & Pedestrian: Field observation did not indicate any pedestrian activity at this intersection.

Type Access: By Permit.

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

Right-of-Way Requirement: Georgia Department of Transportation shall be responsible for the acquisition of all required rights of way at this location.

Utilities: Jackson County shall be responsible for all public utility adjustments at this location.

Estimated Cost:

Item	Total Amount	
	Federal/State	Local
R/W -----	\$ 36,600	
Utilities -----	\$ 0	0
Estimated LGPA Total -----	\$ 36,600	
Construction -----	\$ 221,756	
Traffic Signal -----	\$ 50,000	
E & C 10% -----	\$ 27,176	
Total Construction -----	\$ 298,932	

Permits Required: Traffic Signal.

Level of Environmental Analysis: Categorical Exclusion.

Level of Public Involvement: None.

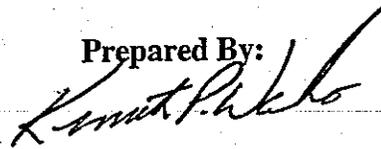
Time Saving Procedures Appropriate: Yes (X) No ()

Design Variances Required: None.

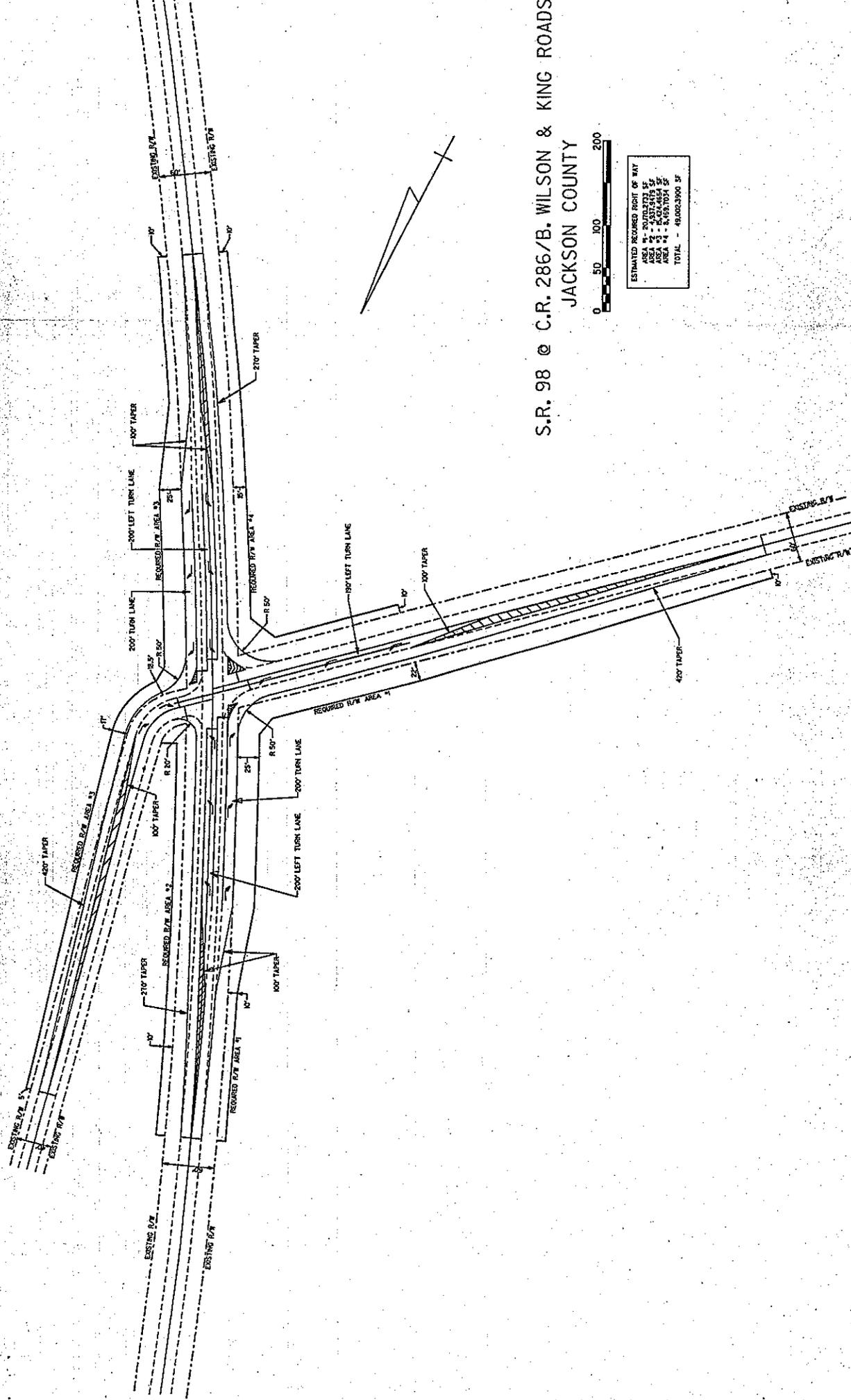
Alternates Considered: None.

Comments:

Prepared By:



Ken Werho



S.R. 98 @ C.R. 286/B. WILSON & KING ROADS
 JACKSON COUNTY



ESTIMATED REQUIRED POINT OF BUY	
AREA #1 - 200' TURN LANE	48,000.00 SF
AREA #2 - 100' LEFT TURN LANE	4,800.00 SF
AREA #3 - 100' LEFT TURN LANE	4,800.00 SF
AREA #4 - 200' TURN LANE	48,000.00 SF
TOTAL	105,600.00 SF

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE SR 98 @ B. Wilson/King Road
Jackson County

OFFICE Gainesville

DATE April 27, 1999

FROM ^{TIV} Todd I. Long, P.E., District Traffic Engineer

TO Marion G. Waters III, P.E., State Traffic Operations Engineer
Attn: Bayne Smith

SUBJECT **INTERSECTION EVALUATION**
SR 98 @ B. Wilson/King Road
M.L. 5.85, Jackson County

Attached is information gathered by this office for the evaluation of the subject intersection. This particular intersection was included in a list of intersections with improvement potential. A summary of our findings and our recommendations are as follows.

FINDINGS

TOPOGRAPHY

State Route 98 is an east/west route consisting of two lanes and serves as a minor arterial facility between the City of Commerce and I-85 as well as other points to the west. On State Route 98 at the subject intersection there is an uphill grade and a curve to the left traveling eastbound. B. Wilson Road approaches from the south on an uphill grade and is located approximately 190 feet west of the hillcrest on State Route 98. King Road intersects the state route from the north also on an uphill grade, however, is off-set some 32 feet to the west from B. Wilson Road. Channelized commercial drives exist in the northwest and southwest quadrants of the intersection. B. Wilson Road contains major access points for a local shopping mall and apartment buildings. King Road is basically a loop road which re-enters the state route approximately 0.15 mile to the west of the subject intersection.

EXISTING TRAFFIC CONTROL

This intersection is controlled by a side street stop condition. Both side streets have stop signs with King Road's signs being double indicated. All approaches are striped with double yellow centerline.

VEHICULAR VOLUMES

The 1998 AADT counts are shown below.

-- SR 98 west of intersection	7929
-- SR 98 east of intersection	7866
-- B. Wilson Road	1491
-- King Road	1042

Peak hour hand counts were made at the intersection on January 26, 1999. The evening peak hour had the highest numbers with a total of 673 vehicles both directions on State Route 98. B. Wilson Road also had the highest volumes during the evening peak with 164 vehicles. The highest volume for King Road was during lunch peak with a total of 69 vehicles which was only eight more vehicles than during the evening peak.

VEHICLE SPEEDS

The full-time posted speed limit on State Route 98 is 45 mph. The majority of the vehicles that were observed were traveling much faster than the posted speed limit which is probably due to the rural nature of the roadway to the west of this intersection. The speed limit was posted 55 mph on B. Wilson Road with no signs being noted on King Road.

ACCIDENT HISTORY

Accident data was reviewed for a four year period at this intersection. During this time period there were three accidents that occurred in 1995, five in 1996, seven in 1997 and eight in 1998. Out of the total twenty-three accidents, nineteen of the accidents involved vehicles either pulling out or turning into one of the subject side streets.

OTHER INFORMATION

On-site observations revealed a problem with cross traffic from the side streets at this location due to the off-set of the two roads. Apparently, motorists are unclear as to who has the right-of-way when exiting the side streets. It appeared that they were also uncertain as to where the opposing vehicle was going once they turned left out of the side street. Vehicles that are crossing to the opposite street are forced to turn left out of one street and then immediately turn right into the other. This seemed to cause confusion because some of the vehicles that turned left were actually continuing straight on State Route 98. On-site observations revealed several near collisions due to the confusion.

OTHER INFORMATION CONT.

Sight distance was reviewed on State Route 98 for the two side streets. Sight distance eastbound is 1000+ feet but was noted that vehicles on King Street were sometimes difficult to see due to large trucks in the parking lot of the commercial development in the northwest quadrant. Vehicles on B. Wilson Road were very visible. Sight distance westbound was somewhat restricted due to the curve and hillcrest just east of the subject intersection. Vehicles on B. Wilson Road could be seen while still in curve but vehicles on King Road were not visible until almost out of the curve.

CONCLUSIONS

Due to the findings presented above, it is concluded that changes to the existing alignment are needed at this intersection. It is further concluded that a left turn lane would be beneficial in the safe movement of vehicles through this intersection. We do not feel that a traffic signal would be justified at this location since no major warrants were met.

RECOMMENDATIONS

It is recommended that King Road be realigned to the east with B. Wilson Road. It is also recommended that a left turn lane be added on State Route 98. We feel that by realigning this intersection that there would be less confusion than what is currently being experienced due to off-set of the side streets. The realignment would also provide better sight distance for westbound traffic on State Route 98 due to the curve and hillcrest to the east of King Road. However, with sight distance still being somewhat restricted traveling westbound and the number of accidents that are occurring at this intersection, we feel that the addition of left hand turn lanes would provide refuge for vehicles turning into either of the two side streets.

It is further recommended that this work be done as a DOT Safety Project.

If you concur with our recommendations and/or have other questions, please inform this office so appropriate action may be taken for implementation. A site diagram, location sketch, location photographs, peak hour hand counts and accident history sheets are all provided for your benefit.

TIL:KRC:krc
attachments

Jackson County

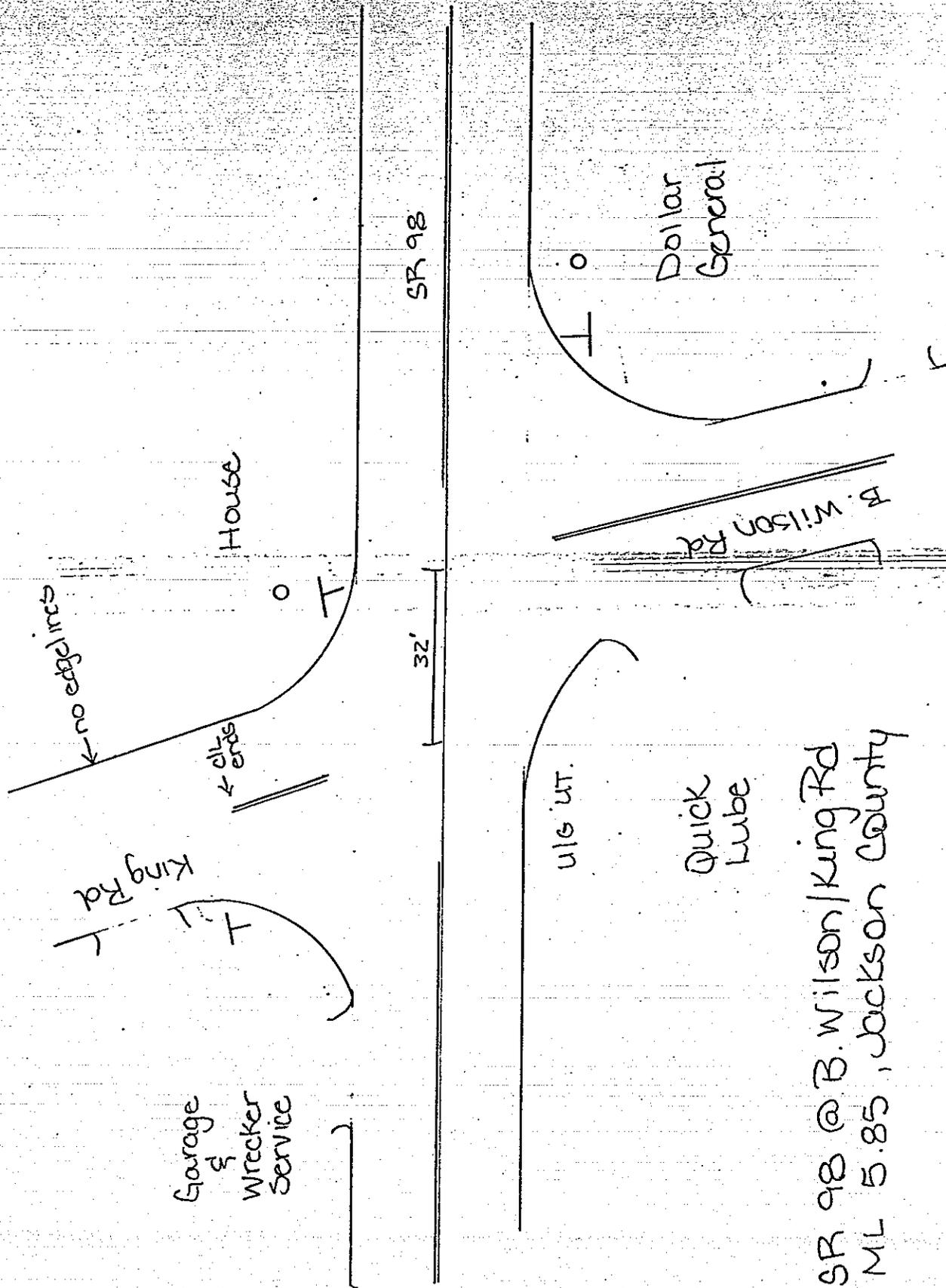
State Route 98 @ B. Wilson/King Road

Mag 15.00
Thu Mar 18 15:32 1999
Scale 1:15,625 (at center)

1000 Feet

500 Meters

- Local Road
- State Route
- US Highway
- - - Utility/Pipe
- Railroad
- + Cemetery
- Water



SR 98 @ B. Wilson/King Rd
ML 5.85, Jackson County

SR 98 @
B. Wilson / King Rd
Jackson County
ML 5.85

State Route 98 EB



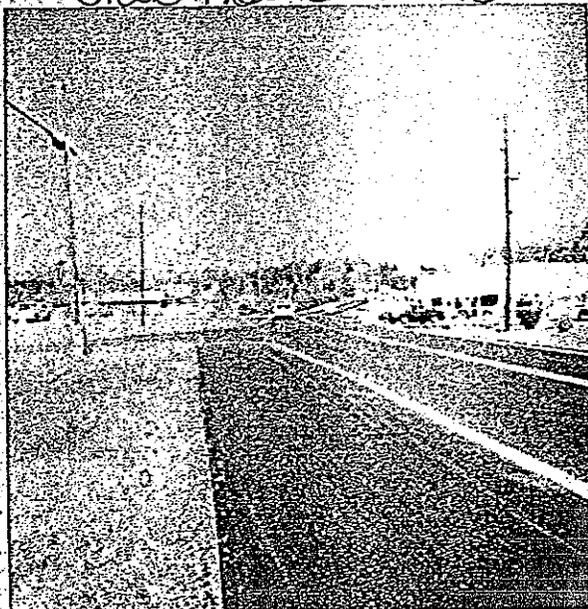
King Street (NB)



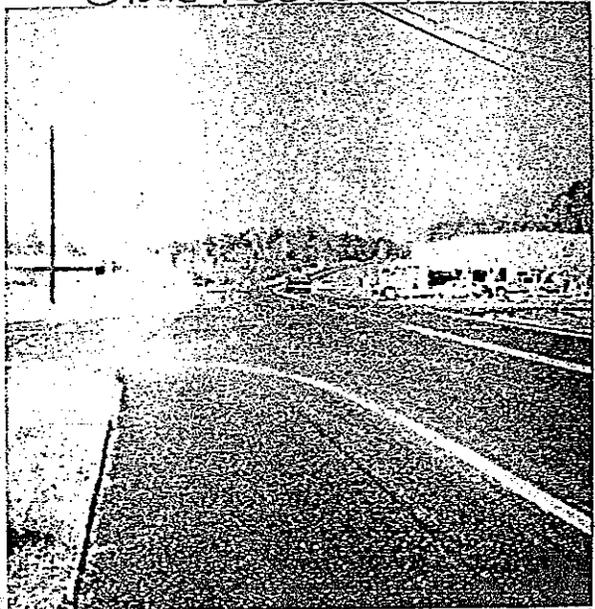
B. Wilson Road (SB)



State Route 98 WB

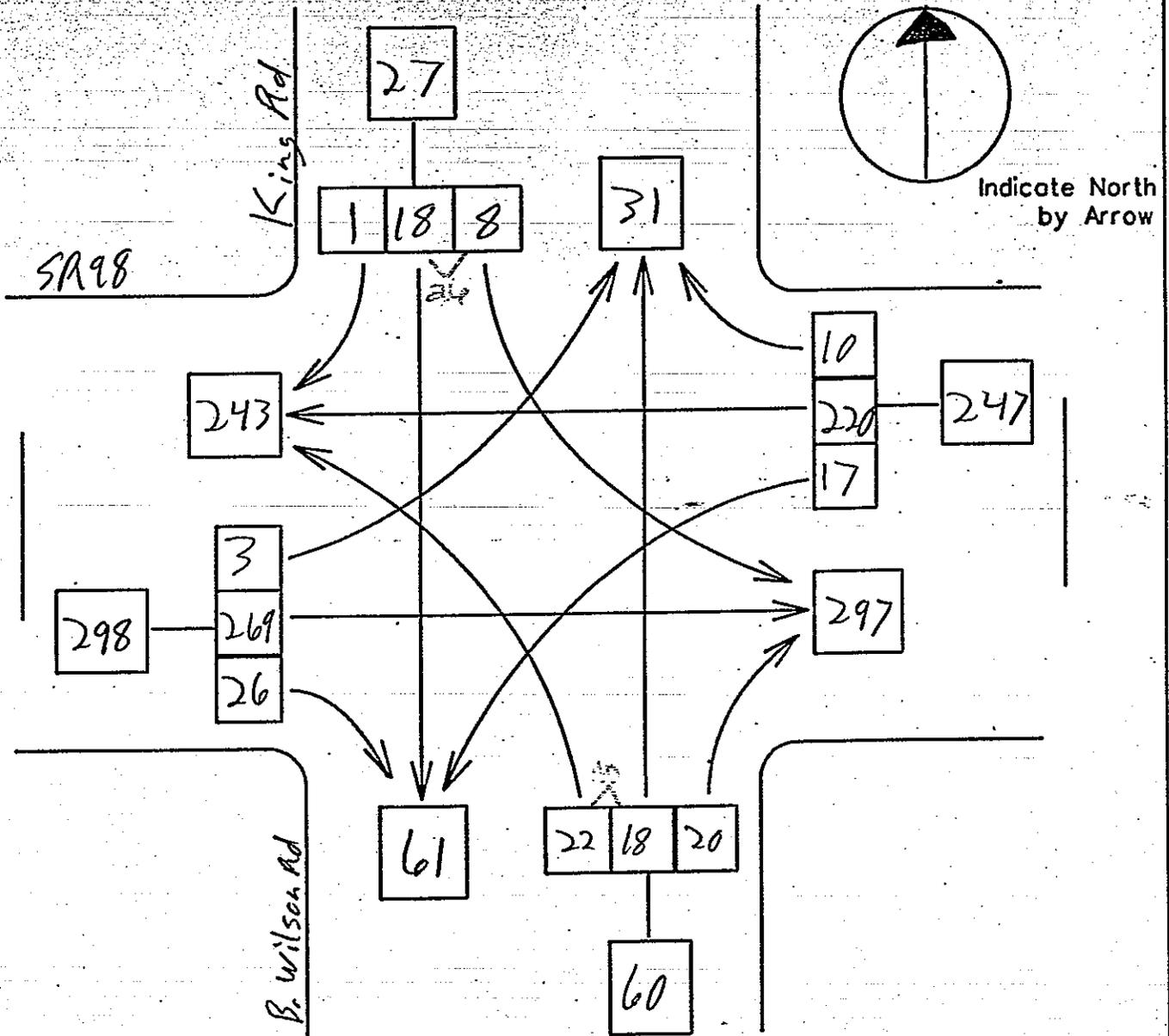


State Route 98 WB



TRAFFIC COUNT SUMMARY SHEET

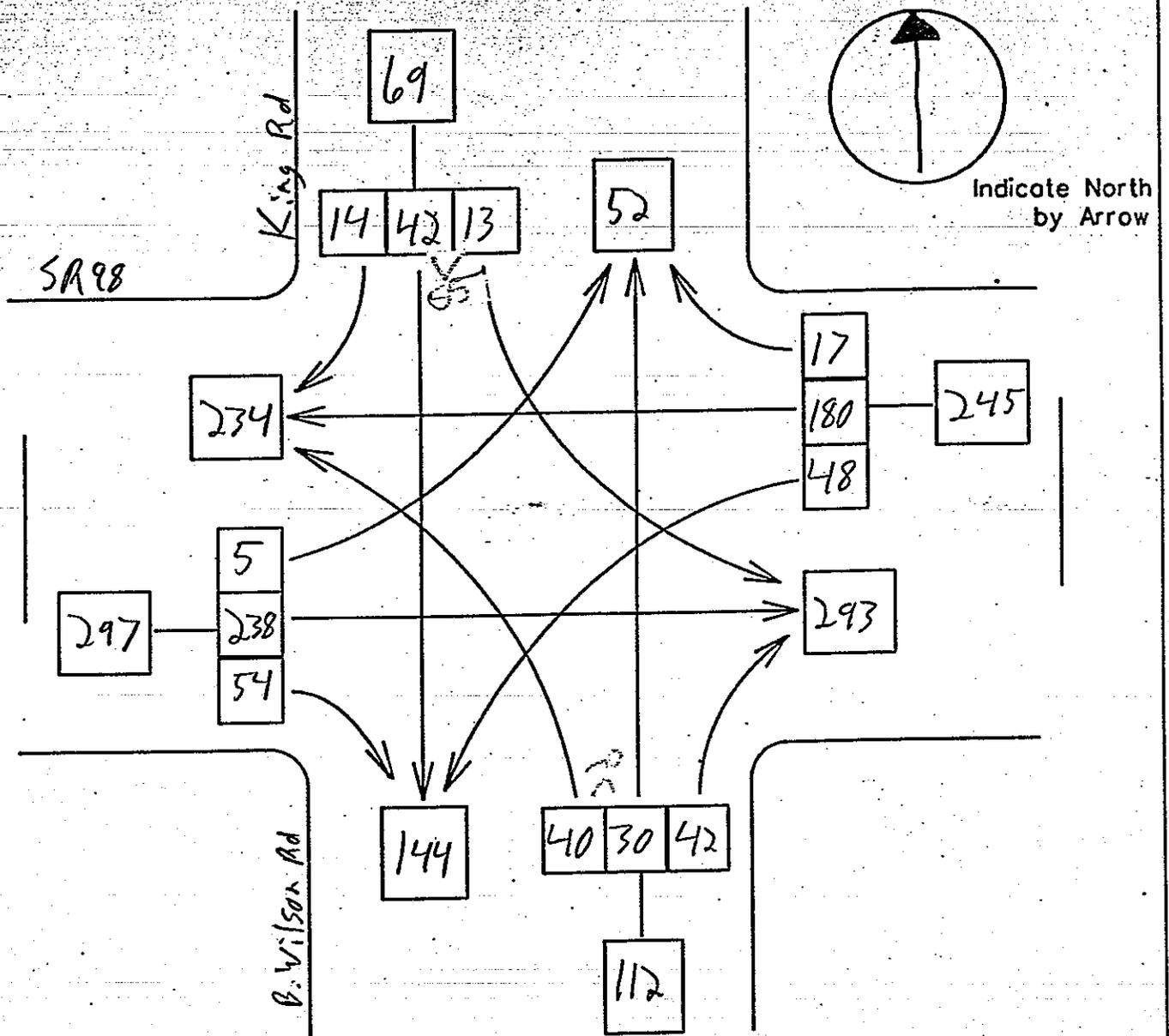
City Lommerce County Jackson
 Location SR 98 @ B. Wilson / King Ad
 Day Tues Date 1-26-99 Hours 7:00 To 8:00 Time am Hrs.
 Weather Clear Road Surface Cond. Dry



Remarks _____

TRAFFIC COUNT SUMMARY SHEET

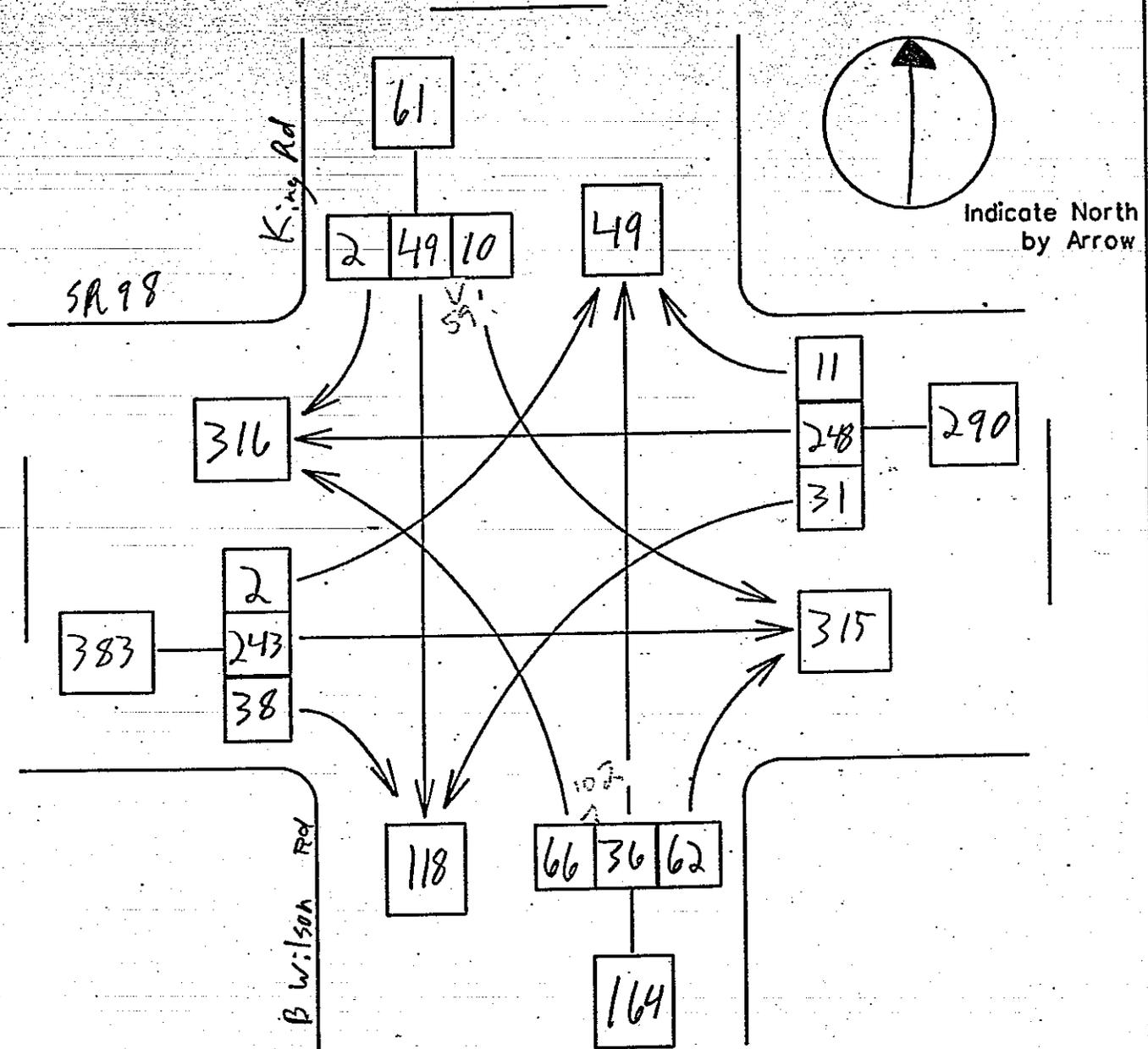
City Lommerce County Jackson
 Location SR 98 @ B. Wilson / King Rd.
 Day Tues Date 1-26-99 Hours 12:00 To 7:00 Time pm Hrs.
 Weather Clear Road Surface Cond. Dry



Remarks _____

TRAFFIC COUNT SUMMARY SHEET

City Commerce County Jackson
 Location SA 98 @ B. Wilson/King Rd
 Day Tues. Date 1-26-99 Hours 5:00 To 6:00 Time pm Hrs.
 Weather Clear Road Surface Cond. Dry



Remarks _____

Compiled by: Nathaniel Herron Date: 2-3-99

DEPARTMENT OF TRANSPORTATION
OFFICE OF TRAFFIC AND SAFETY
ACCIDENTS LISTING

CASE	DATE	TIME	COU	TP	ROUTE	MILE	INT RD TYPE	RAMP SECT	F	I-V	I-C	TYPE	ACCIDENT	LOC	LI	SUR	D1	D2	VM1	VM2
51880811	08/11/95	11:45	157	SR	98	5.85	CR	286	0	02	00	ANGLE INTERSECTING	ON ROADWAY	ON ROADWAY	1	DRY	E	S	02	05
51820329	08/06/95	10:04	157	SR	98	5.85	CR	286	0	00	00	STRUCK OBJECT	ON ROADWAY	ON ROADWAY	1	DRY	N	0	05	00
51820349	08/23/95	18:42	157	SR	98	5.85	CR	286	0	01	01	ANGLE INTERSECTING	ON ROADWAY	ON ROADWAY	1	DRY	E	W	01	05

REPORT TOTALS..... ACCIDENTS: 3 FATALITIES: 0 INJ-VISIBLE: 3 INJ-COMP: 1

PAGE TOTALS..... ACCIDENTS: 3 FATALITIES: 0 INJ-VISIBLE: 3 INJ-COMP: 1

DEPARTMENT OF TRANSPORTATION
OFFICE OF TRAFFIC AND SAFETY
ACCIDENTS LISTING

CASE	DATE	TIME	COU	TP	ROUTE	MILE	INT RD TYPE	INT RD	RAMP SECT	F	I-V	I-C	TYPE	ACCIDENT	LOC	LI	SUR	D1	D2	VMI	VM2
60440215	01/02/96	14:38	157	SR	98	5.85	CR	286	0	0	00	00	ANGLE INTERSECTING		ON ROADWAY	1	WET	S	E	05	05
61530579	06/23/96	15:46	157	SR	98	5.85	CR	286	0	0	00	00	SIDESWIPE OPP DIR		ON ROADWAY	1	DRY	E	N	06	05
60890372	04/17/96	17:37	157	SR	98	5.85	CR	286	0	0	03	00	ANGLE INTERSECTING		ON ROADWAY	1	DRY	E	S	05	05
62340859	09/09/96	16:26	157	SR	98	5.85	CR	286	0	0	00	00	ANGLE INTERSECTING		ON ROADWAY	1	WET	S	E	05	05
60710186	03/23/96	11:20	157	SR	98	5.85	CR	286	0	0	00	00	ANGLE INTERSECTING		ON ROADWAY	1	DRY	S	W	05	05

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PAGE TOTALS..... ACCIDENTS: 5 FATALITIES: 0 INJ-VISIBLE: 3 INJ-COMP: 0

DEPARTMENT OF TRANSPORTATION
OFFICE OF TRAFFIC AND SAFETY
ACCIDENTS LISTING

CASE	DATE	TIME	COU	TP	ROUTE	MILE	INT RD TYPE	INT RD	RAMP SECT	F I-V	I-C	TYPE ACCIDENT	LOC	LI	SUR	D1	D2	VML	VM2
71830174	06/28/97	11:47	157	SR	98	5.85	CR	286	0	00	00	ANGLE INTERSECTING	ON ROADWAY	1	DRY	N	E	01	05
71320354	05/10/97	11:50	157	SR	98	5.85	CR	286	0	00	00	REAR END	ON ROADWAY	1	DRY	N	N	01	05
71830121	06/02/97	15:25	157	SR	98	5.85	CR	286	0	00	00	ANGLE INTERSECTING	ON ROADWAY	1	DRY	W	S	05	05
70370927	01/02/97	9:47	157	SR	98	5.85	CR	286	0	00	00	SIDESWIPE OPP DIR	ON ROADWAY	1	WET	E	W	05	05
71820060	07/23/97	11:12	157	SR	98	5.85	CR	286	0	00	00	REAR END	ON ROADWAY	1	WET	N	N	04	05
70550364	02/10/97	19:24	157	SR	98	5.85	CR	286	0	00	01	ANGLE INTERSECTING	ON ROADWAY	5	DRY	S	W	05	05
70370945	01/16/97	19:28	157	SR	98	5.85	CR	286	0	00	00	ANGLE INTERSECTING	ON ROADWAY	5	DRY	E	S	05	05

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PAGE TOTALS..... ACCIDENTS: 7 FATALITIES: 0 INJ-VISIBLE: 0 INJ-COMP: 1

DEPARTMENT OF TRANSPORTATION
OFFICE OF TRAFFIC AND SAFETY
ACCIDENTS LISTING

19-Apr-1999
Page 1

CASE	DATE	TIME	COU	TP	ROUTE	MILE	INT RD TYPE	INT RD	RAMP SECT	F I-V	I-C	TYPE ACCIDENT	LOC	LI	SUR	D1	D2	VMI	VM2
81120035	03/13/98	16:40	157	SR	98	5.85	CR	286	0	0	00	ANGLE INTERSECTING	ON ROADWAY	1	DRY	S	E	05	05
80920780	04/26/98	0:27	157	SR	98	5.85	CR	286	0	0	00	SIDESWIPE OPP DIR	ON ROADWAY	4	DRY	S	E	05	05
80770023	04/03/98	14:22	157	SR	98	5.85	CR	286	0	0	00	REAR END	ON ROADWAY	1	WET	S	W	05	01
81220609	05/30/98	16:05	157	SR	98	5.85	CR	286	0	0	01	ANGLE INTERSECTING	ON ROADWAY	1	DRY	S	W	05	05
81620398	07/06/98	10:01	157	SR	98	5.85	CR	286	0	0	00	ANGLE INTERSECTING	ON ROADWAY	1	DRY	S	W	05	05
81440872	06/17/98	13:41	157	SR	98	5.85	CR	286	0	0	00	HEAD ON	ON ROADWAY	1	DRY	N	N	02	05
81910690	06/30/98	16:04	157	SR	98	5.85	CR	286	0	0	00	ANGLE INTERSECTING	ON ROADWAY	1	DRY	N	N	05	01
81490165	06/25/98	16:05	157	SR	98	5.85	CR	286	0	0	00	ANGLE INTERSECTING	ON ROADWAY	1	DRY	W	S	05	05

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PAGE TOTALS:..... ACCIDENTS: 8 FATALITIES: 0 INJ-VISIBLE: 1 INJ-COMP: 2