

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

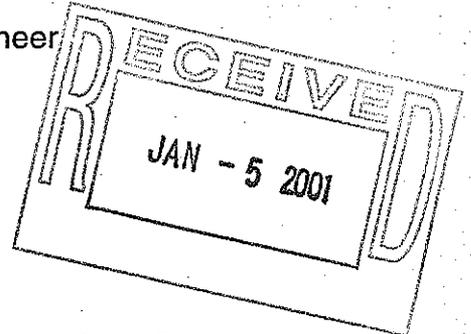
FILE: STP-0001-00(999) McDuffie County
P.I. No.: 0001999
SR 10/US 78 @ SR 223/White Oak Road
Safety/Intersection Improvements

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

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

TO: Mike Thomas, District Engineer, Tennille
Attn: David Griffith

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 with curb & gutter and sidewalk. 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.
- Roger Price, w/attach.
- Dick Graves, w/attach.
- General Files

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

PROJECT CONCEPT REPORT

McDUFFIE COUNTY

FEDERAL ROUTE NO: 78
STATE ROUTE NO: 10 & 223
GADOT P.I. NO:

SEE ATTACHED
LOCATION SKETCH

Date of Report: December 3, 1993
Revised: September 26, 2000

RECOMMENDED:	<u>9/29/2000</u>	<u><i>Marion Stalder</i></u>
	DATE	STATE TRAFFIC OPERATIONS ENGINEER
RECOMMENDED:	<u>11/3/00</u>	<u><i>Michael L. Thomas</i></u>
	DATE	DISTRICT ENGINEER
RECOMMENDED:	<u>11/29/00</u>	<u><i>H. K. Drentz</i></u> ^{D.P.G.}
	DATE	CHIEF ENGINEER
APPROVED:	<u>11/30/00</u>	<u><i>Tom Calvert</i></u>
	DATE	COMMISSIONER

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

PROJECT CONCEPT REPORT

McDUFFIE COUNTY

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9/29/2000
DATE

Marion S. ...
STATE TRAFFIC OPERATIONS ENGINEER

RECOMMENDED:

DATE

DISTRICT ENGINEER

RECOMMENDED:

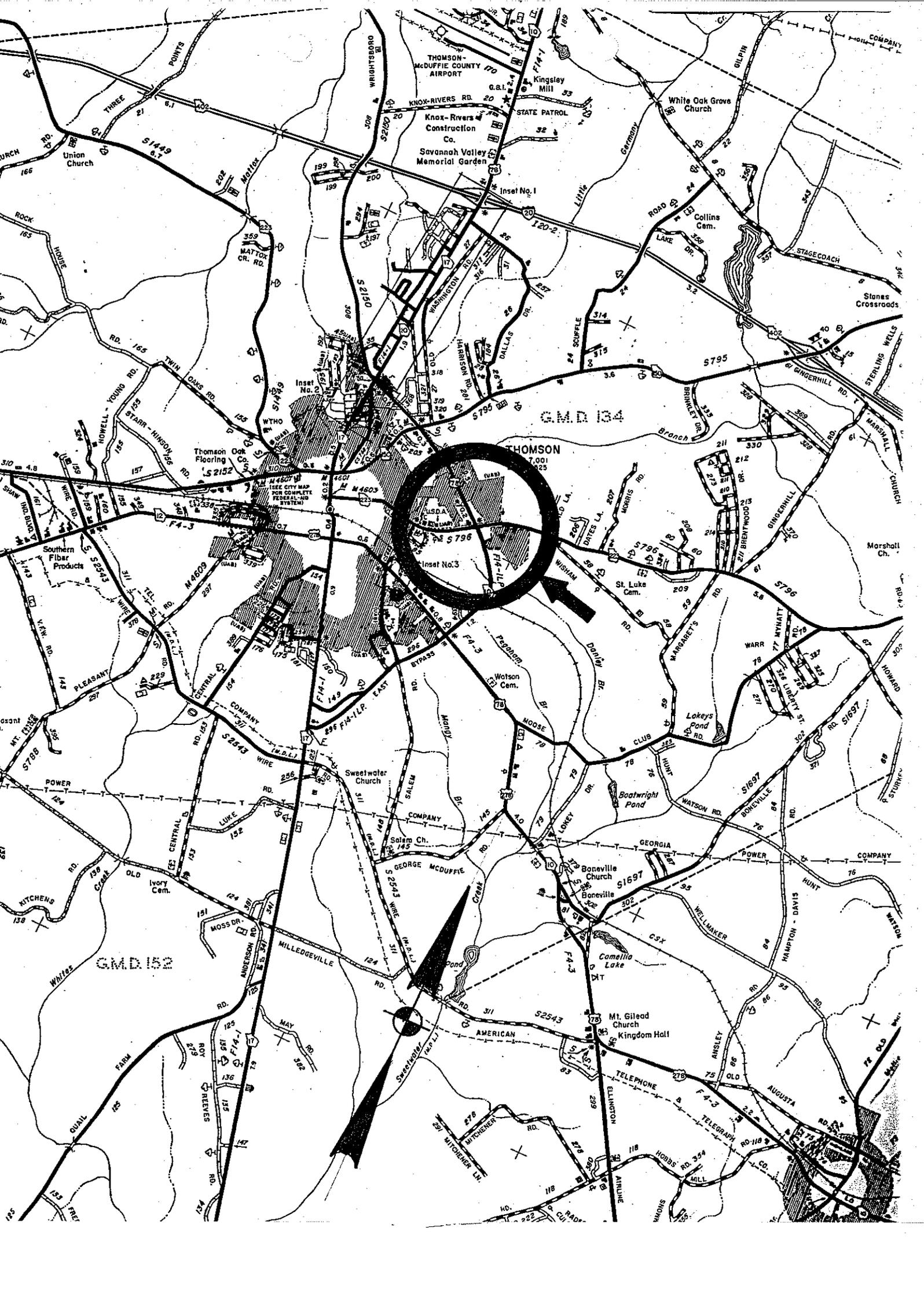
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CHIEF ENGINEER

APPROVED:

DATE

COMMISSIONER



Inset No. 1

Inset No. 2

Inset No. 3

G.M.D. 104

G.M.D. 100

THOMSON-McDUFFIE COUNTY AIRPORT
KNOX-RIVERS RD
Knox-Rivers Construction Co.
Savannah Valley Memorial Garden

White Oak Grove Church

THOMSON

Sweetwater Church

Boneville Church
Boneville

Mt. Gilead Church
Kingdom Hall

Union Church

Southern Fibar Products

POWER

WATERS

QUAIL FARM

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PROJECT CONCEPT REPORT

P.I. No.:

Project No.:

McDuffie County

Route No.:

SR 10/US 78/Thomson East Bypass
SR 223/White Oak Road & Walnut Street

Location: The intersection of SR 10 @ SR 223 is located approximately 0.24 miles south of the City Limits of Thomson and 5.42 miles west of the Columbia County Line on SR 10 in McDuffie County.

Description: The original concept for this Proposed Safety Project was approved on 27 June 94, but was never programmed. The original concept typical section has been revised as follows:
SR 10: 6' symmetric widening to provide a 12' left turn lane with an additional 12' auxiliary right turn lane with curb & gutter and sidewalk in both directions.
SR 223: 6' symmetric widening to provide a 12' left turn lane with an additional 12' auxiliary right turn lane with curb & gutter and sidewalk in both directions. The westbound approach will remain 36' wide to the taper tie-in. Extra pavement will be striped out until future 3-lane is completed.

Traffic – Current ADT:

SR 10 ----- 9,300 (1998 ADT)
SR 223 ----- 9,600 (1998 ADT)

Existing Typical: SR 10: 2 – 14 ft. travel lanes, one in each direction, with 6 ft. grassed shoulders.

SR 223: 2 – 12 ft. travel lanes, one in each direction, with 5 ft. grassed shoulders.

Existing Right of Way:

SR 10 ----- 100' (Estimated)
SR 223 ----- 100' (Estimated)

Existing Traffic Control: SR 10 @ SR 223 is a 4-way stop with stop ahead signs, stop sign and stop bar.

Existing Major Structures: None.

Statement of Need & Purpose: Accident history for this intersection shows only twenty-seven accidents at this location over a four year period ('95 – '98) with fourteen being angle intersecting & eleven rear ends. The installation 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: Sidewalk has been added.

Length: 0.40 miles

Termini: - SR 10 - - SR 223 -

From M.P.: 14.47 8.91

To M.P.: 14.67 9.11

PDP Class: Minor Existing

Functional Class: SR 10 ----- Rural Major Collector

SR 223 ----- Rural Minor Arterial

Max Degree of Curve: +/- 3.2 Degrees

Max Grades: +/- 2.0 %

Design Speed: 45 mph.

Proposed Typical Section: SR 10: 2 – 12 ft. travel lanes, one in each direction, with a 12 ft. left & right turn lanes in both directions with curb & gutter and sidewalk.

SR 223: 2 – 12 ft. travel lanes, one in each direction, with a 12 ft. left & right turn lane in both directions with curb & gutter and sidewalk.

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:

Item	Total Amount
R/W -----	\$ 0 (By GDOT)
Utilities -----	\$ 0 (By GDOT)
Estimated LGPA Total -----	\$ 0
Construction -----	\$ 358,781
Traffic Signal -----	\$ 50,000
Railroad Equipment -----	\$ 0
E & C 10% -----	\$ 40,878
Total Construction -----	\$ 449,659

Permits Required: Traffic Signal.

Level of Environmental Analysis: Categorical Exclusion.

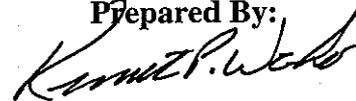
Level of Public Involvement: None.

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

Design Variances Required: None.

Alternatives Considered: None.

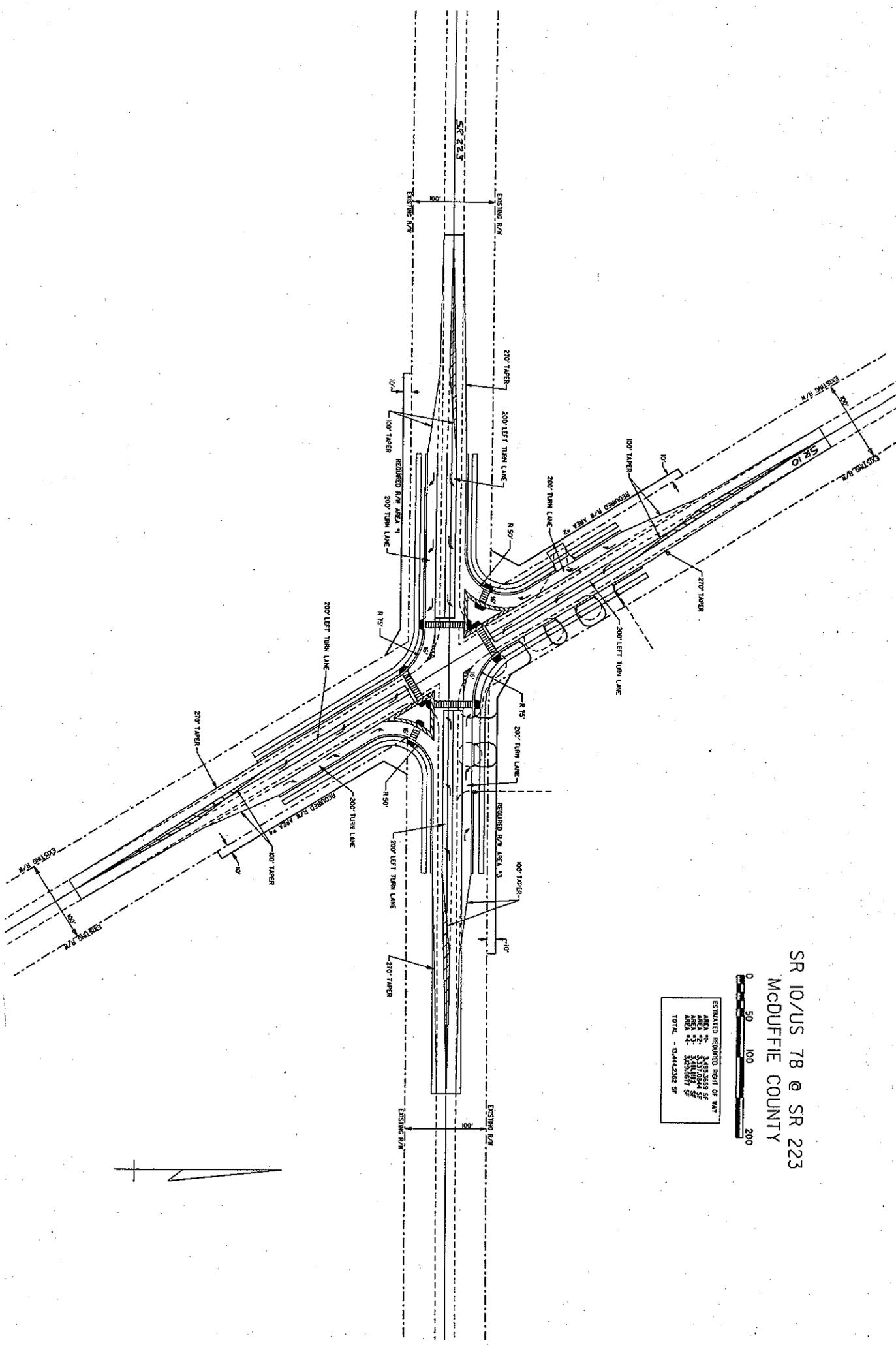
Comments: Project EDS-545(3), P.I. # 262400 will construct the remainder of the 3-lane section to include curb & gutter and sidewalks. A copy of the Original Concept is attached.

Prepared By:

Ken Werho

SR 10/US 78 @ SR 223
 MCDUFFIE COUNTY



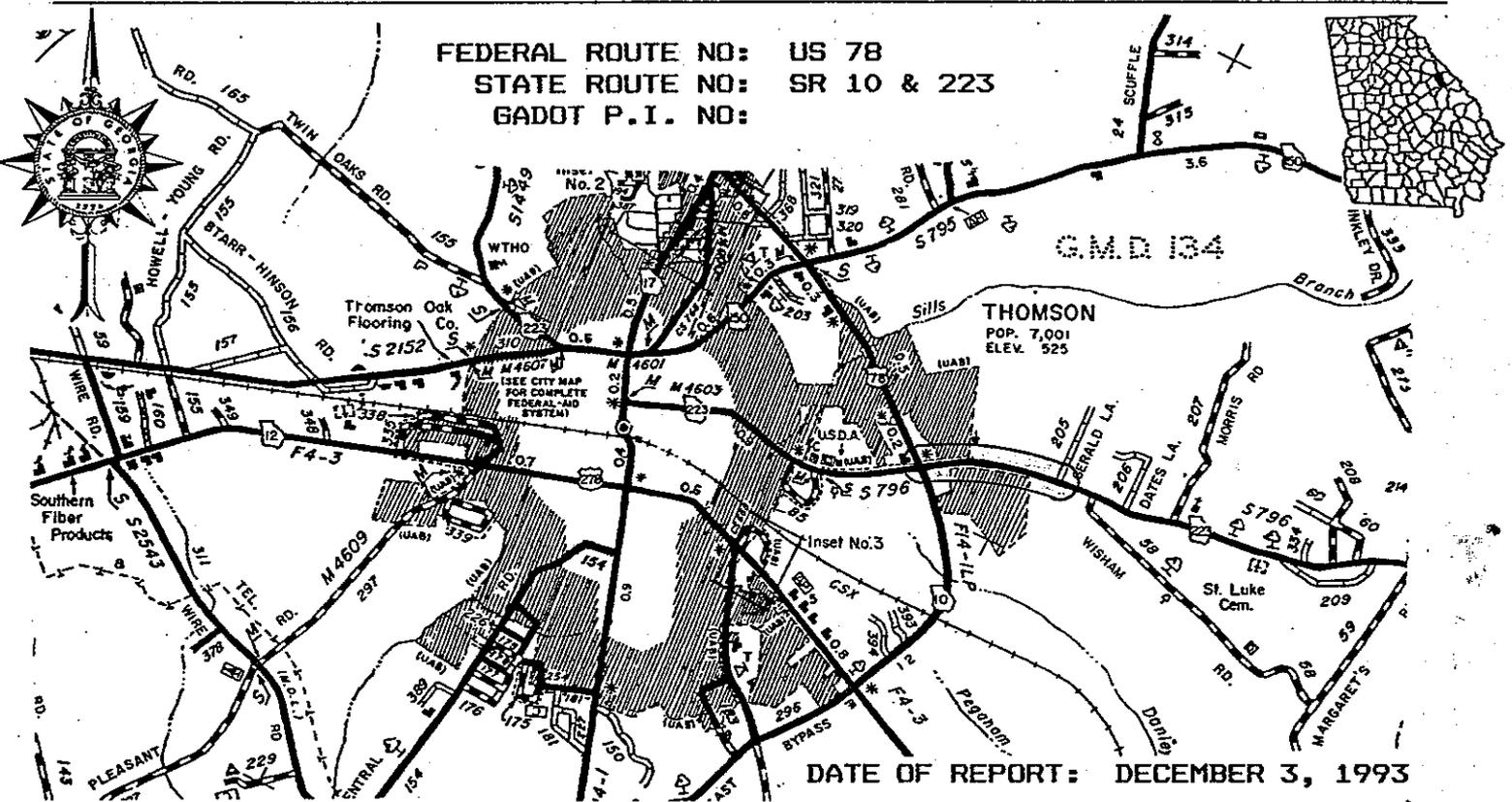
ESTIMATED REQUIRED RIGHT OF WAY	
AREA "A"	3,483,369 SF
AREA "B"	3,337,044 SF
AREA "C"	3,000,000 SF
AREA "D"	3,000,000 SF
TOTAL	12,820,413 SF



DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

PROJECT CONCEPT REPORT
MCDUFFIE COUNTY

FEDERAL ROUTE NO: US 78
STATE ROUTE NO: SR 10 & 223
GADOT P.I. NO:



RECOMMENDED: 6-22-94
DATE

Charles W. Spring, Jr.
DISTRICT ENGINEER

RECOMMENDED: 12/10/93
DATE

M. G. Waters, III
STATE TRAFFIC OPERATIONS ENGINEER

RECOMMENDED: 6/27/94
DATE

Jack D. ...
STATE HIGHWAY ENGINEER

APPROVED: 6-27-94
DATE

Wayne Shackelford
COMMISSIONER

PROJECT CONCEPT REPORT

P.I. NO:

PROJECT NO: McDuffie Co. ROUTE: SR 10/US 78 @ SR 223

LOCATION: At the intersection of State Route 10 and State Route 223 east of Thomson.

TRAFFIC - CURRENT ADT: SR 10 - 4,780 (92 ADT)
SR 223 - 6,200 (92 ADT)

EXISTING TYPICAL SECTION: SR 10 * 2 - 14 ft. travel lanes with 6 ft. grassed shoulders.
SR 223 * 2 - 12 ft. travel lanes with 5 ft. grassed shoulders.

EXISTING RIGHT-OF-WAY: SR 10 - 100 ft. estimated
SR 223 - 100 ft. estimated

EXISTING TRAFFIC CONTROL: SR 10 - Stop sign controlled
SR 223 - Stop sign controlled

EXISTING MAJOR STRUCTURES: None

STATEMENT OF NEED: To improve safety, reduce possible points of conflicts and improve operational efficiency of this intersection.

PURPOSE OF PROJECT: To construct left turn lanes for all four legs of this intersection and to construct right turn lanes for the westbound to northbound movement and the northbound to eastbound movement. To install a stop and go traffic signal. To construct a three lane section for SR 223 from SR 10, east to the intersection of the proposed By-pass {EDS 545-(3), P.I. No. 262400} at CR 205 utilizing curb & gutter and sidewalks both sides.

<u>LENGTH:</u> 0.89 mile	<i>SR 10</i>	<i>SR 223</i>
<u>TERMINI - FROM:</u>	M.P. 14.47	M.P. 8.92
<u>TO :</u>	M.P. 14.67	M.P. 9.61

PDP CLASS: Minor Existing
FUNCTIONAL CLASS: SR 10 - Rural Major Collector
SR 223 - Rural Minor Arterial

MAX DEGREE OF CURVE: 3.2 Degrees MAX GRADES: 2 Percent

DESIGN SPEED: SR 10 Posted at 45 M.P.H.
SR 223 Posted at 45 M.P.H.

PROPOSED TYPICAL SECTION: SR 10 * 2 - 12 ft. travel lanes with 14 ft. left turn lane, 12 ft. right turn lane (northbound to eastbound movement) and with curb & gutter extending to the beginning of the taper.

SR 223 * 2 - 12 ft. travel lanes with 14 ft. left turn lane, 12 ft. right turn lane (westbound to northbound movement) and curb and gutter. Two lane section with 14 ft. TWLTL with curb & gutter and sidewalks will extend to the proposed By-Pass (EDS-545-(3), P.I. No. 262400) scheduled to cross at CR 205.

PROPOSED MAJOR STRUCTURES: None

TYPE ACCESS: By Permit.

TRAFFIC CONTROL DURING CONSTRUCTION: Existing operation shall be maintained during construction.

RIGHT-OF-WAY REQUIREMENT: Additional R/W and construction easements may be required and will be the responsibility of McDuffie County or the City of Thomson based on municipality boundaries.

UTILITIES: Any required utility relocations will be the responsibility of McDuffie County or the City of Thomson based on municipality boundaries.

ESTIMATED COST:

<u>ITEM</u>	<u>TOTAL AMOUNT</u>
R/W	\$ 14,000 (By LGPA)
UTILITIES	\$ <u>139,200</u> (By LGPA)
SUB-TOTAL	\$ 153,200
CONSTRUCTION	\$ 364,091
TRAFFIC SIGNAL	\$ 45,000
INFLATION	\$ 0
E. & C.	\$ <u>40,909</u>
TOTAL CONSTRUCTION	\$ 450,000

PERMITS REQUIRED: Stop and Go Traffic Signal permit required.

LEVEL OF ENVIRONMENTAL ANALYSIS: Signal Required. Environmental air quality assessment required.

LEVEL OF PUBLIC INVOLVEMENT: None

TIME SAVING PROCEDURES APPROPRIATE: YES (XX) NO ()

DESIGN VARIANCES REQUIRED: None

ALTERNATIVES CONSIDERED: None

PREPARED BY:

