

Sharon

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DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

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APR 20 1994

PRECONSTRUCTION

INTERDEPARTMENT CORRESPONDENCE

FILE: CM-00TS (5)
ATLANTA REGIONAL ATMS
P.I. No. 713125
25 Variable Message Signs

OFFICE: Traffic Operations
Atlanta, Georgia
DATE: April 20, 1994

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

TO: Sam Zeigler, Traffic Operations Design, West Annex

SUBJECT: APPROVED REVISED CONCEPT REPORT

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

The concept for this project was revised to change the estimated cost of the variable message signs and sign structures and also the inclusion of VMS location listing and location map.

If you should have any questions, please contact Jim Hitt of this office at 651-9599 or GIST 223-9599.

MGW:JHH

Attachments

- cc: Frank Danchetz
- John Lively, w/att.
- Bob Mustin, w/att.
- Wayne Hutto, w/att.
- Herman Griffin, w/att.
- Mark Demidovich, w/att.
- John Hendon, w/att.
- Frances Anglin, w/att.
- Susan Knudson, w/att.
- Martin Knopp, FHWA, w/att.
- General Files, w/att.

State of Georgia Department of Transportation

Project Concept Report

Atlanta Regional Advanced Transportation Management System

25 Variable Message Signs

Project Number: CM-OOTS (5)

PI No: 713125

Date of Report: October 1993

Revised: March 1994

RECOMMENDED:

4/12/94
Date

M. G. Waters III
State Traffic Operations Engineer

RECOMMENDED:

4/15/94
Date

L. H. Daniels
State Highway Engineer
Chief

APPROVED:

4-18-94
Date

Wayne Shackelford
Commissioner

Date of Report: October 1993
Revised: March 1994

PROJECT CONCEPT REPORT

P.I. NUMBER: 713125

PROJECT NUMBER: CM-OOTS (5), District 7

LOCATION: Interstates 75, 85, and 20 (various locations), SR 400 (toll section), SR 166

TRAFFIC: Sample locations:

I-75 at Howell Mill Rd.: 160,400 VPD
I-85 at Clairmont Rd.: 179,700 VPD
I 75/85 at University Ave.: 219,000 VPD
I-20 at Moreland Ave.: 130,800 VPD
SR 400 at toll plaza: 70,000 VPD
SR 166 at I 75/85: 66,500 VPD

STATEMENT OF NEED: One of the major components of the Advanced Transportation Management System (ATMS) is the Advanced Traveler Information System, or ATIS. This system will provide the users (travelers) with various services. These services include traffic information, transit use and route information, and special event information. There are several methods by which this information can be transmitted to the users. The major systems that the Georgia ATMS will use are Variable Message Signs (VMS), Highway Advisory Radio (HAR) and kiosks. Information will also be available to users through a telephone system and dial-up computer network. The two components that will relay transportation information to motorists while they are actually driving are the VMS and HAR. These two systems will primarily give information concerning accidents, delays, and alternate routes. With accurate information available to them, motorists will be able to alter their travel routes around areas of congestion. VMS will provide a threefold advantage - motorists will be able to reduce their delay time, fewer vehicles will enter areas of congestion (allowing the congestion to clear faster) and the number of secondary accidents will be reduced through warnings to approaching traffic.

PURPOSE OF PROJECT: The purpose of this project is to purchase, have fabricated and install the first 25 Variable Message Signs in the Atlanta Metropolitan area. A map and description of the locations is attached. These locations have been selected by the Georgia DOT's ATMS Consultant, TRW, Inc. The locations were chosen using several different criteria. Some major points considered during the locating process were: signs should be located in or advance of areas with high volume counts, high accident frequency and in areas that allow motorists to choose alternate routes. This project will be followed by another similar project for additional VMS, DPI-0010 (001) Ct. 10.

LENGTH: N/A

TERMINI: N/A

POP. CLASS: N/A

MAX. DEGREE OF CURVE: N/A

MAX. GRADES: N/A

DESIGN SPEED: N/A

PROPOSED TYPICAL SECTION: N/A

MAJOR STRUCTURES: Some signs may be mounted on steel bridges if feasible.

TYPE ACCESS: N/A

TRAFFIC CONTROL: Lane closures may be required during sign installation.

RIGHT-OF-WAY REQUIREMENT: None

UTILITIES: Power for signs

ESTIMATED COST:

<u>ITEM</u>	<u>TOTAL AMOUNT</u>
25 Variable Message Signs @ \$236,000 each	\$5,900,000.00
25 Sign structures for mounting signs @ \$64,000 each	\$1,600,000.00
TOTAL	\$7,500,000.00

PERMITS REQUIRED: None

LEVEL OF ENVIRONMENTAL ANALYSIS: Categorical exclusion. No right of way purchase required.

LEVEL OF PUBLIC INVOLVEMENT: None

TIME SAVING PROCEDURES APPROPRIATE: Yes

DESIGN VARIANCES REQUIRED: None

ALTERNATIVES CONSIDERED: Purchase and install fewer or no message signs.

PREPARED BY: Mark Demidovich
Mark Demidovich, TE II
Transportation Management Center

VMS LOCATIONS FOR THE ATLANTA ATMS

	FREEWAY	STATION/LOCATION	REGION/COMMENTS
1.	NB I-75	Sta 1004+00	Southeast (outside of I-285).
2.	NB I-75	Sta 108+50	South (outside) of I-285
3.	NB I-75	Sta 335+50	South of I 75/85 split
4.	SB I-75/85	Sta 241+75	North of Lakewood Fwy
5.	NB I-75/85	Sta 280+00	South of University Ave.
6.	SB I-75/85	Sta 438+50	Near International Blvd.
7.	NB I-75/85	Sta 40+00	South of 10th Street Bridge
8.	NB I-75	Sta 211+00	North of Howell Mill Rd.
9.	SB I-75	Sta 229+40	South of Moore's Mill Rd.
10.	SB I-75	Sta 440+00	South of Chattahoochee River Bridge
11.	SB I-75	Sta 313+00	South of Delk Rd.
12.	NB I-85	Sta 515+00	North of Flat Shoals Rd.
13.	NB I-85	Sta 90+00	Southwest of I-75/85 split
14.	NB I-85	Sta 126+50	South of Monroe & Piedmont Rd. Exit
15.	SB I-85	Sta 157+50	South of N. Druid Hills Rd.
16.	SB I-85	Sta 342+00	North of Clairmont Rd.
17.	NB I-85	Sta 427+50	South of Chamblee-Tucker Rd.
18.	SB I-85	Sta 481+50	South of Pleasantdale Rd.
19.	EB I-20	Sta 1142+00	West of M.L.K Jr. Dr. Bridge
20.	EB I-20	Sta 1431+00	West of Ashby Street
21.	WB I-20	Sta 205+50	West of Moreland Ave.
22.	WB I-20	Sta 600+00	2 miles east (outside) of I-285
23.	SB SR 400	Sta 66+50	North of I-85
24.	SB SR 400	Sta 197+50	North of Wieuca Road overpass
25.	EB SR 166	Sta 174+00	Between Stanton Rd. & U.S. 41

VARIABLE MESSAGE SIGNS LOCATION MAP

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	CM-OOTS(5) CT 1		

