

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

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PRECONSTRUCTION

FILE: DPI-0010 (001), Ct. 10
ATLANTA REGIONAL ATMS
P.I. No. 770406
ADVANCED TRAVELER INFORMATION SYSTEM

OFFICE: Traffic Operations
Atlanta, Georgia
DATE: April 21, 1994

FROM: 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 designate the actual number of variable message signs and the approximate number of highway advisory radio stations, with their approximate locations. The exact locations of these components are being determined by the ATMS Consultant, TRW, Inc.. The estimated cost of this project was also revised.

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

Advanced Traveler Information System (Including Variable Message Signs and Highway Advisory Radio)

Project Number: DPI - 0010 (001) Ct. 10
PI No: 770406

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. C. D. Jones
State Highway Engineer
@h.e.t

APPROVED:

4-19-94
Date

W. J. Blackford
Commissioner

Date of Report: October 1993

Revised: March 1994

PROJECT CONCEPT REPORT

P.I. NUMBER: 770406

PROJECT NUMBER: DPI - 0010 (001), District 7

LOCATION: Interstates 75, 85, 20, 575, 675, and 285, SR 400, US 78, SR 166, and SR 316 (all various locations).

TRAFFIC: Sample locations:

I-75 at Delk Rd.: 209,700 VPD

I-85 at Indian Trail Rd.: 192,200 VPD

I 75/85 at University Ave.: 219,900 VPD

I-20 at Wesley Chapel Rd.: 100,300 VPD

I-285 at Ashford - Dunwoody Rd.: 233,700 VPD

I-575 at Earnest Barrett Pkwy.: 56,600 VPD

US 78 at Hugh Howell Rd.: 77,200 VPD

SR 400 at Northridge Rd.: 129,600 VPD

STATEMENT OF NEED: Travelers in the metropolitan Atlanta area will be anxious to see the benefits of the multi-million dollar ATMS project being developed by the Georgia DOT. The primary subsystem of the ATMS that local residents and visitors alike will use is the Advanced Traveler Information System, or ATIS. On the roadways, information will be transmitted to motorists in two ways - Variable Message Signs and Highway Advisory Radio. These two informational sources will provide motorists with traffic conditions ahead, accident warnings, diversion possibilities and special event information.

PURPOSE OF PROJECT: The purpose of this project is to install the foundation of the Advanced Traveler Information System. The components included in this project are Variable Message Signs (VMS) and Highway Advisory Radio (HAR) stations. This project will include twenty VMS and approximately 10 HAR stations. No exact locations have been determined for any of the VMS and HAR in this project at this time. However, a map showing approximate locations of the VMS in this project is attached. Exact stationing of these components is being determined by the Georgia DOT's ATMS Consultant, TRW, Inc.

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>
20 Variable Message Signs @ \$236,000 each	\$4,720,000.00
20 Sign structures for mounting signs @ \$64,000 each	\$1,280,000.00
HAR broadcasting field equipment, approx. 10 stations at \$50,000 each	\$500,000.00
TOTAL	<u>\$6,500,000.00</u>

PERMITS REQUIRED: FCC license for HAR broadcasting.

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

LEVEL OF PUBLIC INVOLVEMENT: None

TIME SAVING PROCEDURES APPROPRIATE: Yes

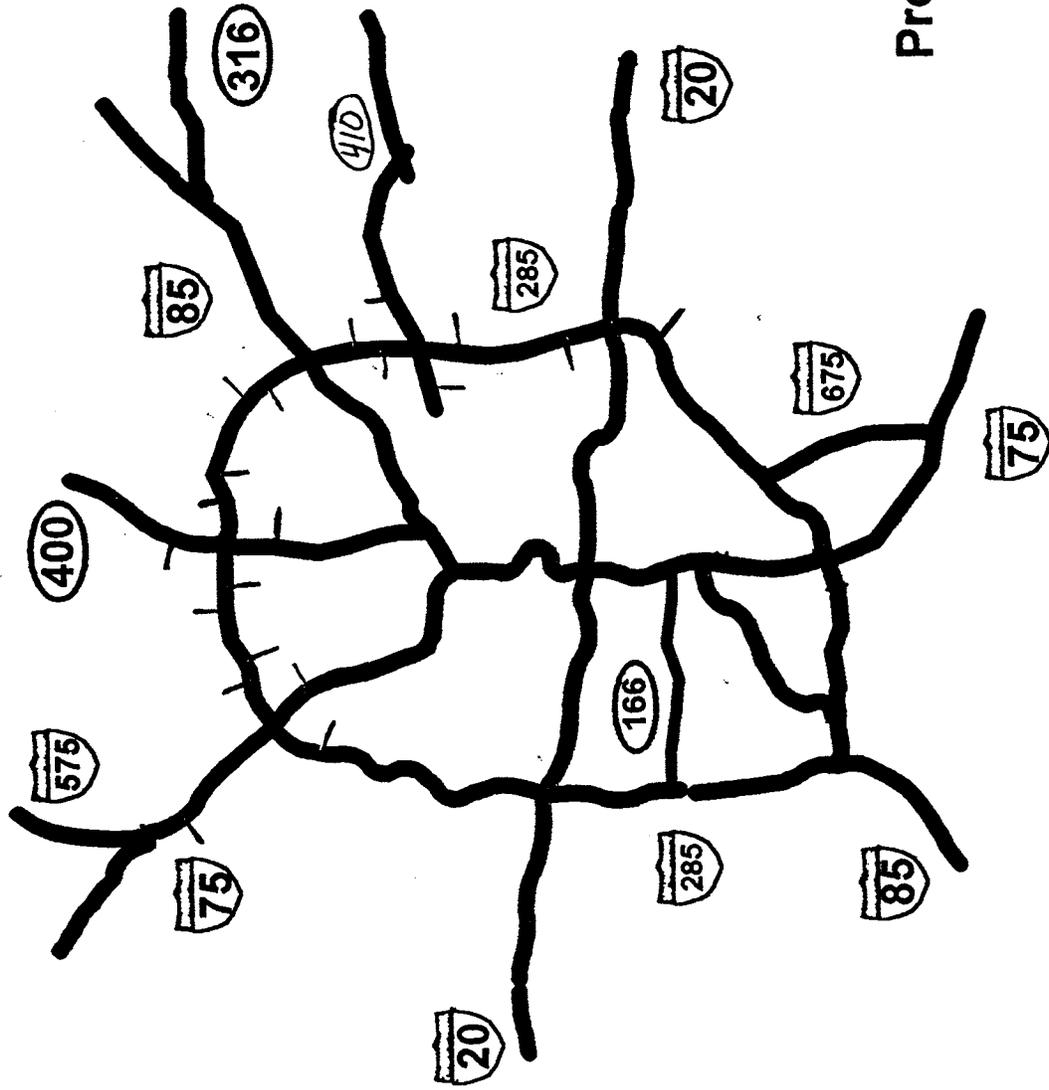
DESIGN VARIANCES REQUIRED: None

ALTERNATIVES CONSIDERED: Purchase and install fewer or no message signs / highway advisory radio stations.

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

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20 Variable Message Signs and HAR



HAR Station locations
not finalized at this time

Programmed:
\$5.5 million