

ORIGINAL TO GENERAL FILES

D.O.T. 66

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

FILE CM-056-1(56) Fulton County
P. I. No. 724960

OFFICE Preconstruction

DATE September 26, 2000

FROM C. Wayne Hutto, Assistant Director of Preconstruction

TO SEE DISTRIBUTION

SUBJECT PROJECT CONCEPT REPORT APPROVAL

Attached for your files is the approval for subject project.

CWH/cj

Attachment

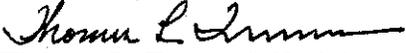
DISTRIBUTION:

Tom Turner
David Mulling
Harvey Keeper
Jerry Hobbs
Herman Griffin
Michael Henry
Marion Waters
Marta Rosen
Paul Liles
Jimmy Chambers (ATTN: Ted Cashin)
Steve Henry
Joe Palladi
FHWA

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

FILE CM-056-1(56) Fulton County **OFFICE** Preconstruction
P.I. No. 721960 **DATE** July 11, 2000

FROM 
Thomas L. Turner, P.E., Director of Preconstruction

TO J. Tom Coleman, Jr., Commissioner

SUBJECT PROJECT CONCEPT REPORT

This project is the expansion of Georgia DOT's Navigator System on SR 400 from I-85 northward to I-285. The Navigator System has nearly reached full integration inside the I-285 perimeter highway. Extension of the system along I-85 north of I-285 and the northern arc of I-285 are currently under construction, and the design of SR 400 north of I-285 is complete. This project includes that portion of SR 400 in Fulton County from I-85 on the south to I-285. This segment of SR 400 already has automated toll collection in place and this phase will complete the Navigator implementation on this section.

This project will expand the fiber optic trunk line from Hub "E" east of the I-85/SR 400 northbound ramp, and at Hub "B" east of the I-285/Roswell Road interchange. The fiber optic trunk line will be buried under the right shoulder of the northbound and southbound lanes and will consist of a duct bank on both sides of the freeway. This trunk will consist of three, 2" conduits and six, 1-1/4" conduits on the northbound side, and three, 2" conduits and eight, 1-1/4" conduits on the southbound side. This will match the section of SR 400 north of I-285. On the southbound side of the freeway, trunk fiber will be 72 single-mode fiber for devices and 72 single-mode fiber for hub to hub communications. On the north side of the freeway, the trunk will consist of 72 single-mode fiber for devices.

Other devices installed by this project will be two types of cameras, one used for general traffic surveillance and the other for vehicle detection. These cameras will be mounted on concrete poles 70' above pavement, located mainly off the right shoulder of the highway. One changeable message sign (CMS) and necessary structure will be installed in this project. This sign will be located south of the Atlanta Financial Center tunnel, facing northbound traffic. All network electronics required to operate and communicate with the devices in this project are included as part of this project.

Environmental concerns include requiring a Categorical Exclusion be prepared; a public hearing is not required; time saving procedures are appropriate.

J. Tom Coleman, Jr.
Page 2

CM-056-1(56) Fulton
July 11, 2000

The estimated costs for this project are:

	<u>PROPOSED</u>	<u>APPROVED</u>	<u>PROG DATE</u>	<u>LET DATE</u>
Construction (includes E&C and inflation)	\$10,361,000	\$4,000,000	2002	01-07
Right-of-Way & Utilities	----	----	2004	

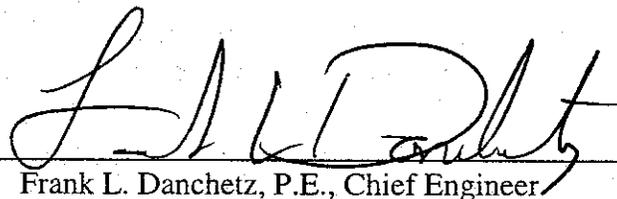
see attached email & spreadsheet

Expanding Navigator to this corridor will allow quicker detection and verification of incidents by operators at the TMC. This project is in the STIP. I recommend this project concept be approved.

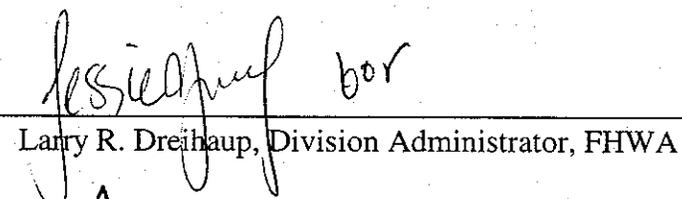
TLT:JDQ/cj

Attachment

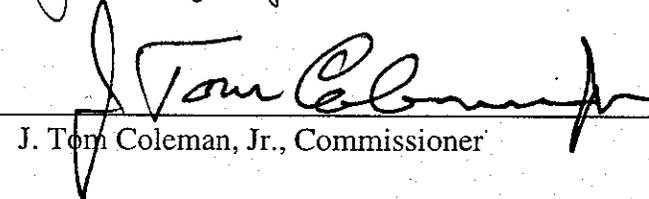
CONCUR


Frank L. Danchetz, P.E., Chief Engineer

APPROVE

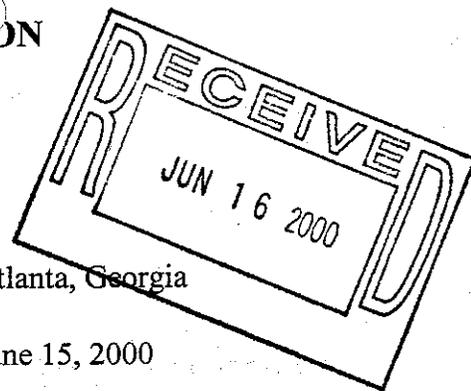

Larry R. Dreihaupt, Division Administrator, FHWA

APPROVE


J. Tom Coleman, Jr., Commissioner

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENTAL CORRESPONDENCE



FILE: CM-056-1(56) Fulton
P.I. Number 721960

OFFICE: Atlanta, Georgia

DATE: June 15, 2000

FROM: David Mulling, Project Review Engineer *OM*

TO: Wayne Hutto, Assistant Director of Pre-construction

SUBJECT: CONCEPT REPORT

We have reviewed the concept report submitted by the letter from Marion Waters dated June 7, 2000, and have the following comment:

1. The project should be designated as Full Oversight instead of as Non-CA. The current FHWA and GDOT Oversight Agreement eliminated the Non-CA and CA designations.

The costs for the project are:

Construction	\$8,970,000
Inflation	\$ 449,000
E&C	\$ 942,000
Reimbursable Utilities	\$ 0
Right of Way	\$ 0

DTM

c: Marion Waters

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
OFFICE OF TRAFFIC OPERATIONS
PROJECT CONCEPT REPORT SIGN OFF FORM**

**Project No. CM-056-1(56), Fulton County
Communications and Surveillance**

**State Route Number: 400
G.D.O.T. P.I. Number: 721960**

RECOMMENDATION FOR APPROVAL

6-9-00 *Marion G Waters III*
Date State Traffic Operations Engineer

This project concept is contained in the Regional Transportation Improvement Program (RTIP) and in the State Transportation Improvement Program (STIP). The concept as presented herein and submitted for approval is consistent with that which is included in the RTIP and in the STIP.

Date State Road Design Engineer

Date State Urban Design Engineer

Date State Transportation Planning Administrator

Date State Transportation Programming Engineer

Date State Environmental/Location Engineer

Date District Engineer

Date Project Review Engineer

Date State Bridge and Structural Design Engineer

PROJECT CONCEPT REPORT

DATE: June 2, 2000

PROJECT NO.: CM-056-1(56), Fulton County

P.I. NO.: 721960

PROJECT NAME: NaviGator Communication and Surveillance expansion on State Route 400 from I-85 to I-285

U.S. ROUTE: N/A

STATE ROUTE: 400

LOCATION: I-85 to I-285

PROJECT LENGTH ALONG S.R. 400: 6.9 miles

TRAFFIC: (two-way ADT) 1998: 112,600 vpd

PDP CLASSIFICATION: Minor Project

FOS (X)
~~NON-CA(X)~~

~~CA()~~

EXEMPT()

S()

F()

FUNCTIONAL CLASSIFICATION: Freeway

EXISTING CONDITIONS

TYPICAL SECTION: 6 Lanes Limited Access (with MARTA Rail in Median)

POSTED SPEED LIMIT: 55 MPH

MAXIMUM DEGREE OF CURVATURE: N/A

MAXIMUM GRADE: N/A

EXISTING MAJOR STRUCTURES: Financial Center Tunnel and Toll Plaza.

ACCIDENT HISTORY: The following is a summary of the accident data available for the roadway: N/A

	year	year	year
Total Accidents:			
Total Injuries:			
Total Fatalities:			
Accident Rate:			
Injury Rate:			
Statewide Average for Urban FAP Section: (per 100 million vehicle miles of travel:			
	year	year	year
Accident Rate:			
Injury Rate:			

PROPOSED DESIGN

PROPOSED TYPICAL SECTION: N/A.

PROPOSED RIGHT-OF-WAY WIDTH: N/A

DESIGN SPEED: N/A

	<u>Allowable</u>	<u>Used</u>
MAXIMUM DEGREE OF CURVATURE:	N/A	N/A
MAXIMUM GRADE:	N/A	N/A

TYPE OF ACCESS: Limited Access Freeway

TRAFFIC CONTROL DURING CONSTRUCTION: Shoulder closures and/or right lane closures will be necessary during installation of camera poles and trenching for fiber. Traffic pacing will be required during installation of CMS.

PROPOSED STRUCTURES: CMS Structure.

DESIGN VARIATIONS REQUESTED

CONTROLLING CRITERIA	UNDETERMINED	YES	NO
HORIZONTAL ALIGNMENT:	()	()	(X)
ROADWAY WIDTH:	()	()	(X)
SHOULDER WIDTH:	()	()	(X)
VERTICAL GRADES:	()	()	(X)
CROSS SLOPES:	()	()	(X)
STOPPING SIGHT DISTANCE:	()	()	(X)
SUPERELEVATION RATES:	()	()	(X)
HORIZONTAL CLEARANCE:	()	()	(X)
SPEED DESIGN:	()	()	(X)
VERTICAL CURVES:	()	()	(X)
BRIDGE WIDTH:	()	()	(X)
BRIDGE STRUCTURAL CAPACITY:	()	()	(X)

NUMBER OF PARCELS: 0

DISPLACEMENTS: N/A

COORDINATION AND SCHEDULING

CONCEPT TEAM MEETING DATE: May 24, 2000.

CONFORMS TO TIP/STIP? (Yes)

MEETS LOGICAL TERMINI REQUIREMENTS? Yes

P.A.R. MEETING: N/A.

LEVEL OF ENVIRONMENTAL ANALYSIS: Categorical exclusion

PUBLIC INVOLVEMENT: Coordination during design with Toll Authority and Fulton County.

PERMITS REQUIRED: N/A.

TIME SAVING PROCEDURES APPROPRIATE: Yes

SCHEDULING CONSIDERATIONS

TIME TO COMPLETE ENVIRONMENTAL: 8/24/00.

TIME TO COMPLETE PRELIMINARY RD/RW PLANS: 8/24/00.

TIME TO COMPLETE 404 PERMIT: N/A.

TIME TO COMPLETE FINAL CONSTRUCTION PLANS: 11/28/00.

TIME TO PURCHASE REQUIRED RIGHT-OF-WAY: N/A.

LOCAL GOVERNMENT COMMITMENTS: N/A.

OTHER PROJECTS IN AREA: N/A

PROBABLE LOCATIONS OF USTs: N/A

PROBABLE LOCATION OF HAZARDOUS WASTE: None anticipated.

OTHER ALTERNATIVES CONSIDERED: No Build.

COMMENTS: Extension of NaviGator system, see attached Need and Purpose Statement.

ATTACHMENTS: Need and Purpose Statements, Preliminary Cost Estimate, and Concept Plans.

ATTACHMENTS

STATEMENT OF NEED: The Georgia DOT's NaviGator system was initially implemented in April of 1996. During these four years of service, this system has managed to become an intricate part of the transportation scheme for Atlanta's drivers. From the HEROs to the changeable message signs, the NaviGator system has proved itself to be a valuable tool for the traveling public.

The NaviGator system has nearly reached full integration inside the I-285 Perimeter Highway. Extension of the system along I-85 north of I-285 and the northern arc of I-285 are currently under construction, and the design of SR 400 north of I-285 is complete. This project includes that portion of SR 400 in Fulton County from I-85 on the south, northward to I-285. This segment of SR 400 already has automated toll collection in place, and this phase will complete the NaviGator implementation on this section of SR 400. Expanding NaviGator to this corridor will allow quicker detection and verification of incidents by operators at the TMC. This will result in better information to travelers, quicker response by Highway Emergency Response Operators (HEROs) and safer roadways.

PURPOSE OF PROJECT: The purpose of this project is to expand the NaviGator system on SR 400 from Interstate 85 northward to Interstate 285. This project will expand the fiber optic trunk line from Hub E, east of the I-85/SR 400 Northbound Ramp, and at Hub B, east of the I-285/Roswell Road Interchange. The fiber optic trunk line will be buried under the right shoulder of the northbound and southbound lanes as in other NaviGator projects, and will consist of a duct bank on both sides of the freeway. The trunk will consist of three two-inch conduits and six one-and-a-quarter-inch conduits on the northbound side, and three two-inch conduits and eight one-and-a-quarter-inch conduits on the southbound side; this will match the section of SR 400 north of I-285. On the southbound side of the freeway (with eight one-and-a-quarter-inch conduits), trunk fiber will be 72 single-mode fiber for devices and 72 single-mode fiber for hub-to-hub communications. On the northbound side of the freeway, the trunk fiber will consist of 72 single-mode fiber for devices.

The I-285 Project (CM-00MS (70)) has provisions to install a duct bank of 3-4" 4 way multi-cell and 1-4" conduit along SR 400 on the northbound shoulder from I-285 south 9,200 feet (approx. station 381+50) to a new CMS. The northbound duct bank will connect to the ECB located station 381+50.

Other devices installed by this project will be two types of cameras, one used for general traffic surveillance and the other for vehicle detection (speed, volume, occupancy, etc.). These cameras will be mounted on concrete poles 70 feet above pavement, located mainly off the right shoulder of the highway. However, where appropriate, some cameras may be mounted on existing structures. This project will include approximately 16 color pan/tilt/zoom cameras and 47 black-and-white video detection cameras. The poles and other mounting apparatus for the cameras are included in this project. In addition 2 cameras are proposed at the entrance portals of the Atlanta Financial Center tunnel to provide additional surveillance through this area.

One changeable message sign (CMS) and necessary structure will be installed in this project. This sign will be located south of the Atlanta Financial Center Tunnel, facing northbound traffic.

There are three existing CMS located on this section of SR 400. One is a 3 line 10 character CMS just south of the toll plaza (approx. Station 301+80) facing the southbound lanes. Another is a 3 line 21 character CMS just north of Sidney Marcus Blvd. (approx. station 172+20), facing the southbound lanes. In addition a new 3 line 15 character CMS is under construction north of Windsor Parkway (approx. station 381+50) facing northbound traffic. This CMS has fiber communications, the other two existing CMS will be connected into the new Fiber Communications and the telephone connections eliminated.

Devices in the northern half of the project will be routed to existing Hub B, and devices on the southern half will be routed to existing Hub E.

Coordination with the Toll Authority during the design phase will be required in order to route the proposed conduit duct banks through the toll plaza area.

All network electronics required to operate and communicate with the devices in this project are included as well. This may include electronic equipment to be located in Hub B and Hub E, or in the Equipment Room at the TMC. Network electronics include devices for multiplexing video and data signals, converting analog signals to digital signals for transmission on fiber and video switches.

UTILITIES: Power to devices is required. No new telephone service necessary. Elimination of two telephone drops to the 2 southbound CMS will occur.

ESTIMATED COST: 6.9 Miles at \$1.3 Million/Mile **\$8.97 Million**
Includes 18 CCTV Installations, 47 VDS Installations, 1 Changeable Message Sign and Structure, Fiber Optic Cable, Conduit and Network Electronics

PREPARED BY:

TransCore

SUBMITTED BY:

Transportation Management Center

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
OFFICE OF TRAFFIC OPERATIONS
PROJECT CONCEPT REPORT SIGN OFF FORM**

**Project No. CM-056-1(56), Fulton County
Communications and Surveillance**

**State Route Number: 400
G.D.O.T. P.I. Number: 721960**

RECOMMENDATION FOR APPROVAL

Date State Traffic Operations Engineer

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Date State Road Design Engineer

Date State Urban Design Engineer

Date State Transportation Planning Administrator

Date State Transportation Programming Engineer

Date State Environmental/Location Engineer

Date District Engineer

Date Project Review Engineer

June 17, 2000

Paul V. Giles Jr.

Date State Bridge and Structural Design Engineer

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
OFFICE OF TRAFFIC OPERATIONS
PROJECT CONCEPT REPORT SIGN OFF FORM**

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Communications and Surveillance**

**State Route Number: 400
G.D.O.T. P.I. Number: 721960**

RECOMMENDATION FOR APPROVAL

6-9-00 Marion G. Waters III
Date State Traffic Operations Engineer

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Date State Road Design Engineer

Date State Urban Design Engineer

6/20/00 Marta V. Rosen
Date State Transportation Planning Administrator

Date State Transportation Programming Engineer

Date State Environmental/Location Engineer

Date District Engineer

Date Project Review Engineer

Date State Bridge and Structural Design Engineer

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
OFFICE OF TRAFFIC OPERATIONS
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Communications and Surveillance**

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Date State Urban Design Engineer

Date State Transportation Planning Administrator

Date State Transportation Programming Engineer

Date State Environmental/Location Engineer

6-14-00 *Stephen F. Henry*
Date District Engineer

Date Project Review Engineer

Date State Bridge and Structural Design Engineer

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
OFFICE OF TRAFFIC OPERATIONS
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Communications and Surveillance**

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G.D.O.T. P.I. Number: 721960**

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Date State Urban Design Engineer

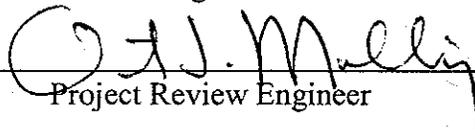
Date State Transportation Planning Administrator

Date State Transportation Programming Engineer

Date State Environmental/Location Engineer

Date District Engineer

6/15/00
Date


Project Review Engineer

Date State Bridge and Structural Design Engineer

From: Chuck.Hasty@dot.state.ga.us
To: Yung, Jessie <FHWA>
Date: 9/12/00 8:23AM
Subject: Project Cost Estimates for ITS Projects

CM-75-2(214), Clayton County
P.I. No. 714070-
ATMS/I-75 Surveillance Devices from Tara Boulevard to I-285

CM-285-1(360), DeKalb County
P.I. No. 713410-
ATMS/I-285 Comm/Surveil fm S of Flat Shoals to I-85 N

CM-056-1(56), Fulton County
P.I. No. 721960-
ATMS/SR 400 Comm/Surveil fm S of I-85 to N of I-285

Jessie:

This e-mail is to serve as an explanation for the difference in cost estimates between the Programmed Construction Estimate and the Concept Construction Estimate for the Clayton and Fulton County projects and the Designer's Cost Estimate for the DeKalb County project listed above.

When these projects were originally programmed back in the early-to-mid 1990s, ITS technology was in its infancy. Advancements in ITS technology seemed to change daily, and the costs for providing the technology soared. The Programming Cost Estimate for the subject projects were determined by 'averaging' the bid-unit prices for the Olympic ATMS projects.

I admit that the Programmed Cost Estimates for all ATMS projects should have been revised yearly, and the Office of Traffic Operations has been remiss in its Project Management responsibilities by not revising the estimates. It is been explained to me that the reason that the Programmed Cost Estimate were not revised for the projects was due to low number of ITS projects let to construction.

Now that the GDOT has let a number of ITS projects to construction, the Office of Traffic Operations has been able to establish sound unit prices for the many devices installed on projects.

In early spring of this year, I met with Jim Tolson to revise the Construction Cost Estimates for ITS Projects listed in the Construction Work Program. Based on our discussion, we established an average cost per mile for ITS Interstate Projects. On May 18, 2000, I sent a letter to Herman Griffin, GDOT Office of Programming, requesting that he revise the Programmed Construction Cost Estimates for projects identified with CM or NH funding codes. The revised estimates included inflation and 'engineering and contingency' costs.

I have attached the excel spreadsheet (sent to Herman) listing the projects and their original and revised construction estimates for your information. As you can readily see, the estimates for the above referenced projects have increased significantly. The estimate for CM-75-2(214), Clayton County

increased approximately 300%, CM-285-1(360), DeKalb County increased approximately 1000%, and CM-056-1(56), Fulton County increased approximately 130%. I have no doubt that some additional tweaking will occur when the new TIP is announced in mid October 2000.

Therefore, based on above explanation and my commitment to you that the Office of Traffic Operations will update the Construction Cost Estimates on a regular basis, I am requesting the FHWA approve the Concept Reports for the Clayton and Fulton County projects and the PS&E package for the DeKalb County project (when submitted for approval).

If you have any additional questions or comments, please let me know.

Chuck Hasty
Traffic Design Manager
GDOT-Office of Traffic Operations
(404) 635-8134

<<Rvsvd_CNST_EST_fr_ITS_Prjcts_to_OPrgmmng_0426001.xls>>

CC: hbsmtp.gwhub("Keith.Golden@dot.state.ga.us","Derrick.Cameron@dot.state.ga.us")

Project Number	GDOT P.I. Number	County	Description	Current Construction Estimate	Revised Construction Estimate	Current Scheduled Let Date	
CM-OOTS(10), CT 1	713155-	Fulton	ATMS/Comm/Surveil I-20 fm I-285 east to Capitol Ave.	\$6,100,000	\$13,640,000	00-06	\$
CM-OOTS(10), CT 2	713157-	Fulton	ATMS/Comm/Surveil I-20 fm Capitol Ave to I-285/DeKalb	\$8,300,000	\$17,820,000	00-06	\$
CM-056-1(57)	721950-	Fulton	ATMS/SR 400 Comm/Surveil/ATIS fm I-285 to SR 120	\$10,300,000	\$17,050,000	00-06	\$
CM-75-2(214)	714070-	Clayton	ATMS/I-75 Surveillance Devices fm Tara Blvd to I-285	\$1,784,000	\$5,170,000	00-09	\$
CM-285-1(360)	713410-	DeKalb	ATMS/I-285 Comm/Surveil fm S of Flat Shoals to I-85 N	\$2,462,000	\$25,190,000	00-10	\$
CM-056-1(56)	721960-	Fulton	ATMS/SR 400 Comm/Surveil fm S of I-85 to N of I-285	\$4,000,000	\$5,170,000	00-10	\$
CM-285-1(361)	713370-	Fulton	ATMS/I-285 Surveil fm I-20 W in Fulton N to I-75 in Cobb	\$8,449,000	\$13,750,000	01-03	\$
CM-OOMS(119)	770873-	Fulton	ATMS/Arterial Routes in At-Install Comm Cable & HDW/DeKalb	\$1,000,000	\$2,200,000	01-03	\$
CM-575-1(34)	714090-	Cobb	ATMS/I-575 Comm/Surveil fm I-75 to SR 92/Cherokee	\$6,332,000	\$13,051,500	01-07	\$
CM-285-1(379)	713373-	DeKalb	ATMS/I-285 Surveil fm I-75/Clayton NE through Fulton to I-20/DeKalb	\$6,300,000	\$19,057,500	01-07	\$
CM-186-1(28)	731510-	Fulton	ATMS/SR 154/166 Comm/Surveil fm I-285 to I-75/85	\$5,155,000	\$9,124,500	01-07	\$
CM-85-2(176)	110720-	Gwinnett	ATMS/I-85 N Comm/Surveil fm SR 316 to SR 20	\$5,000,000	\$14,091,000	01-07	\$
CM-675-1(1)	714095-	Clayton	ATMS/I-675 Comm/Surveil fm I-75 to I-285/DeKalb	\$8,623,000	\$16,493,400	02-07	\$
CM-108-1(30)	122925-	Gwinnett	ATMS/SR 316 Comm/Surveil fm I-85 to SR 124/SR 20	\$8,668,000	\$11,399,850	02-07	\$
CM-061-1(106)	721940-	DeKalb	ATMS/SR 410 Comm/Surveil fm Lawrenceville Hwy to E. Park Pl	\$6,000,000	\$11,969,843	03-07	\$
CM-285-1(377)	713371-	Fulton	ATMS/I-285 Surveil fm I-85/Union City North to I-20 West	\$5,400,000	\$18,082,103	03-07	\$
CM-28501(378)	713372-	Fulton	ATMS/I-285 Surveil fm I-85/Union City-Fulton E to I-75/Clayton	\$1,500,000	\$4,202,179	03-07	\$
NHS-0000-00(372)	372	All	Variable Message Signs @ Weigh Stations near Atlanta	\$1,500,000	\$1,650,000	2000	\$
NH-75-2(215)	714075-	Clayton	ATMS/I-75 Comm/Surveil fm Hudson Br Rd/Henry to Tara Blvd.	\$9,132,000	\$15,208,600	00-09	\$
NH-OOTS(45)	122910-	Hall	ATMS/Gainesville Slo Scan/CMS/Raday	\$1,650,000	\$1,815,000	00-10	\$
NH-OOTS(52)	227800-	Richmond	ATMS/Augusta Slo Scan/CMS/Radar	\$1,650,000	\$1,815,000	00-10	\$
NH-OOTS(42)	622115-	Whitfield	ATMS/Dalton Slo Scan/CMS/Radar	\$1,650,000	\$1,815,000	00-10	\$
NH-OOTS(53)	227810-	Richmond	ATMS/Augusta/Richmond Co./GDOT Regional TCC	\$1,000,000	\$1,100,000	00-12	\$
NH-OOTS(57)	523230-	Chatham	ATMS/Chatham Co./GDOT Regional TCC	\$1,000,000	\$1,155,000	01_07	\$
NH-104-1(46)	722145-	DeKalb	ATMS/SR141 Comm/Surveil fm I-285 to Spalding Dr./Gwinnett	\$5,032,000	\$8,402,645	01_07	\$
NH-OOTS(58)	523235-	Chatham	ATMS/Savannah Slo Scan/CMS/Radar	\$1,650,000	\$1,996,500	02_07	\$
NH-OOTS(47)	323000-	Muscogee	ATMS/Columbus Slo Scan/CMS/Radar	\$1,650,000	\$1,996,500	02_07	\$
NH-OOTS(48)	323005-	Muscogee	ATMS/Columbus/Muscogee Co./GDOT Regional TCC	\$1,000,000	\$1,996,500	02_07	\$
NH-OOTS(56)	523225-	Chatham	ATMS/I-16 Comm/Surveil fm I-95 to CBD	\$10,130,000	\$12,814,450	03_07	\$
NH-20-1(86)	714080-	Cobb	ATMS/I-20 Comm/Surveil fm SR 6/Thornton Rd to I-285/Fulton	\$5,870,000	\$10,287,055	03_07	\$
NH-20-1(179)	714085-	DeKalb	ATMS/I-20 Comm/Surveil fm I-285 to SR 138/SR138/Rockdale	\$12,968,000	\$24,892,341	03_07	\$
NH-OOTS(49)	422670-	Dougherty	ATMS/Albany Slo Scan/CMS/Radar	\$1,650,000	\$2,087,250	03_07	\$
NH-OOTS(50)	422675-	Dougherty	ATMS/Albany/Dougherty Co./GDOT Regional TCC	\$1,000,000	\$1,265,000	03_07	\$
NH-OOTS(44)	622120-	Whitfield	ATMS/Dalton/Whitfield Co./GDOT Regional TCC	\$1,000,000	\$1,265,000	03_07	\$
NH-OOTS(64)	821070-	All	ATMS/Roadway Weather Information System	\$4,597,000	\$6,067,640	LR	\$
NH-OOTS(55)	523220-	Chatham	ATMS/I-516 Comm/Surveil	\$5,343,000	\$15,657,840	LR	\$