

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

**OFFICE OF DESIGN POLICY & SUPPORT
INTERDEPARTMENTAL CORRESPONDENCE**

FILE P.I. # 0013209 **OFFICE** Design Policy & Support
Fulton County **DATE** September 15, 2016
GDOT District 7 - Metro Atlanta
I-20 @ 1 location & 8 Locations in Fulton
Signal Upgrades & Pedestrian Improvements

Kemi Phillips
FROM *for* Brent Story, State Design Policy Engineer

TO SEE DISTRIBUTION

SUBJECT APPROVED CONCEPT REPORT

Attached is the approved Concept Report for the above subject project.

Attachment

DISTRIBUTION:

Hiral Patel, Director of Engineering
Joe Carpenter, Director of P3/Program Delivery
Albert Shelby, State Program Delivery Engineer
Darryl VanMeter, State Innovative Delivery Engineer
Bobby Hilliard, Program Control Administrator
Cindy VanDyke, State Transportation Planning Administrator
Eric Duff, State Environmental Administrator
Andrew Heath, State Traffic Engineer
Angela Robinson, Financial Management Administrator
Lisa Myers, State Project Review Engineer
Monica Flournoy, State Materials and Testing Administrator
Lee Upkins, State Utilities Engineer
Richard Cobb, Statewide Location Bureau Chief
Kathy Zahul, District Engineer
Scott Lee, District Preconstruction Engineer
Nicholas Fields, District Utilities Engineer
Lindsay Atnip, Project Manager
BOARD MEMBER - 5th Congressional District

PLANNING & BACKGROUND DATA

Project Justification Statement:

There are nine (9) signalized intersections in Fulton County in need of improvements to address compliance with current GDOT standards and the Manual on Uniform Traffic Control Devices (MUTCD) and the requirements of the Americans with Disabilities Act (ADA). The proposed project will enhance efficiency for vehicular and pedestrian movements at several locations by providing upgraded traffic signal equipment and pedestrian platforms, energy saving LED signal heads, wheelchair ramps, pedestrian signals, and crosswalk striping.

The intersections listed in Table 1 have been identified by the Office of Traffic Operations as high priority for minor intersection improvements. Table 1 also shows the reason the District has identified these intersections to be upgraded. The proposed project is to be included in the Region Wide Signal Upgrade Lump Sum Program.

Table 1: Intersection Upgrade Needs

County	City	Primary Route	Intersecting Road	Reason for Upgrade
Fulton	Atlanta	SR 139/Ralph David Abernathy Blvd	W Ontario Ave	Obsolete Equipment/ADA
Fulton	Atlanta	SR 139/Ralph David Abernathy Blvd	Lucile Ave/Inman St	Obsolete Equipment/ADA
Fulton	Atlanta	SR 139/Ralph David Abernathy Blvd	Cascade Ave	Obsolete Equipment/ADA
Fulton	Atlanta	SR 139/Ralph David Abernathy Blvd	Langhorn St	Obsolete Equipment/ADA
Fulton	Atlanta	SR 139/Ralph David Abernathy Blvd	Lawton St	Obsolete Equipment/ADA
Fulton	Atlanta	SR 139/Ralph David Abernathy Blvd	Peebles St	Obsolete Equipment/ADA
Fulton	Atlanta	SR 139/Ralph David Abernathy Blvd	Joseph E Lowery Blvd	Obsolete Equipment/ADA
Fulton	Atlanta	Joseph E Lowery Blvd	SR 402/I-20 WB	Obsolete Equipment/ADA
Fulton	Atlanta	SR 139/Ralph David Abernathy Blvd	Lee St	Obsolete Equipment/ADA

Existing conditions:

- SR 139/Ralph David Abernathy Blvd – at the intersection of W Ontario Ave – is a four-lane roadway with 10-foot lanes.
- SR 139/Ralph David Abernathy Blvd – at the intersection of Lucile Ave/Inman St – is a four-lane roadway with 10-foot lanes on the north leg of the intersection (with one southbound through-lane dropping to a left-turn lane) and a two-lane roadway with 16-foot lanes on the south leg of the intersection.
- SR 139/Ralph David Abernathy Blvd – at the intersection of Cascade Ave – is a four-lane roadway with 13-foot lanes and a westbound left turn lane into the commercial driveway.
- SR 139/Ralph David Abernathy Blvd – at the intersection of Langhorn St – is a four-lane roadway with 11-foot lanes and a left-turn lane onto Langhorn St NB.
- SR 139/Ralph David Abernathy Blvd – at the intersection of Lawton St – is a four-lane roadway with 12-foot lanes.
- SR 139/Ralph David Abernathy Blvd – at the intersection of Peebles St – is a four-lane roadway with 12-foot lanes.

County: Fulton

- SR 139/Ralph David Abernathy Blvd – at the intersection of Joseph E Lowery Blvd – is a four-lane roadway with 11-foot lanes and left turn lanes.
- Joseph E Lowery Blvd – at the intersection of SR 402/I-20 Westbound – is a four-lane concrete median separated roadway with 12-foot lanes and a left turn lane onto I-20 WB.
- SR 139/Ralph David Abernathy Blvd – at the intersection of Lee St – is a four-lane roadway with 12-foot lanes.

Other projects in the area:

- **0008277 – SR 3 FROM CS 3096 TO CS 2349 & SR 139 FROM CS 1562 TO CS 982** – SR 139 from Gordon Place (MP 9.68) to Florida Ave (MP 12.70). SR 3 from Cleveland Ave (MP 2.91) to Mayland Ave (MP 5.91). Project type is safety.
- **0009396 – BELT LINE CORRIDOR FROM UNIVERSITY AVE TO LENA STREET** – The project begins at Washington Park in Southwest Atlanta at the terminus of Lena St and continues to the southeast along existing former railroad right-of-way for approximately 2.87 miles to Allene Avenue near its intersection with Catherine St in the Adair Park neighborhood. Along this alignment, the project will construct a 14-foot wide multi-use concrete trail with 2 wide stone dust shoulders and a ten foot vertical clearance zone. The project will involved the modification or replacement of the existing former rail bridge over Martin Luther King Jr Drive, and will utilized existing underpasses under Westview Drive, Interstate 20, Lucile Drive, Ralph David Abernathy Blvd, Lawton St, and Murphy Ave/Lee St. At-grade trail crossings will also be constructed at the trail's intersections with Lena St and Allene Ave.
- **0013211 – I-20 @ 1 LOC & SR 139 @ 9 LOCS IN FULTON COUNTY** – The proposed signal upgrade project would consist of complete signal upgrade with pedestrian accommodation for every intersection. This would bring these intersections upto ADA requirements and replace old signal parts in place.
- **0013640 – I-20 FM E OF CHATTAHOOCHEE RIVER TO E OF SR 124 @ 83 BCT LOC** – This project proposes to replace existing BCT (Breakaway Cable Terminal) anchors on guardrail.
- **0014997 – LEE ST TRAIL FROM WEST END MARTA STA TO LAKEWOOD MARTA STA**
- **M004583 - SR 139 FROM COBB COUNTY LINE TO CR 4176/CASCADE AVE** – This project is the milling and resurfacing of SR 139. This section of SR 139 needs resurfacing because the existing pavement is deteriorating. SR 139 was last resurfaced in 1987.
- **M005198 – I-20 FROM SWEETWATER CREEK TO CS 3541/HILL ST** – This project is the resurfacing of SR 402 (I-20). This section of SR 402 (I-20) needs resurfacing because the existing pavement is deteriorating.

Description of the proposed project:

The project will upgrade equipment, accommodate pedestrians, and update pedestrian facilities to meet current ADA standards at the following intersections:

- SR 139/Ralph David Abernathy @ W Ontatio Ave
- SR 139/Ralph David Abernathy @ Lucile Ave/Inman St
- SR 139/Ralph David Abernathy @ Cascade Ave
- SR 139/Ralph David Abernathy @ Langhorn St
- SR 139/Ralph David Abernathy @ Lawton St
- SR 139/Ralph David Abernathy @ Peeples St
- SR 139/Ralph David Abernathy @ Joseph E Lowery Blvd
- I-20 WB @ Joseph E Lowery Blvd
- SR 139/Ralph David Abernathy @ Lee St

The standard project limits will be 200 feet from the center point of the intersection; should setback loops need replacement, the project limits will be 500 feet from the center point of the intersection. If setback loops are present, the survey should include the edge of pavement and property lines to the setback loop. Standard erosion control details should be used. Traffic studies are not needed for this project. The scope of this project will be limited to equipment upgrades, pedestrian accommodations, and updating pedestrian facilities to meet ADA standards.

MPO: Atlanta Regional Commission (ARC)

TIP #: N/A

TIA Regional Commission: Not a TIA Project

MPO Name Congressional District(s): 5

Federal Oversight: Exempt State Funded Other

Projected Traffic: N/A 24 HR T: N/A
Current Year (20WW): N/A **Open Year (20XX):** N/A **Design Year (20YY):** N/A
Traffic Projections Performed by: N/A

Functional Classification (Mainline): Urban Minor Arterial Street

Complete Streets - Bicycle, Pedestrian, and/or Transit Standards Warrants:

Warrants met: None Bicycle Pedestrian Transit

Pavement Evaluation and Recommendations

Preliminary Pavement Evaluation Summary Report Required? No Yes

Preliminary Pavement Type Selection Report Required? No Yes

Feasible Pavement Alternatives: HMA PCC HMA & PCC

DESIGN AND STRUCTURAL

Description of Proposed Project:

Major Structures: N/A

Mainline Design Features:

SR 139 – Urban Minor Arterial Street

No design changes will be made under this project.

Major Interchanges/Intersections:

- SR 139/Ralph David Abernathy @ W Ontatio Ave
- SR 139/Ralph David Abernathy @ Lucile Ave/Inman St
- SR 139/Ralph David Abernathy @ Cascade Ave
- SR 139/Ralph David Abernathy @ Langhorn St
- SR 139/Ralph David Abernathy @ Lawton St
- SR 139/Ralph David Abernathy @ Peeples St
- SR 139/Ralph David Abernathy @ Joseph E Lowery Blvd
- I-20 WB @ Joseph E Lowery Blvd
- SR 139/Ralph David Abernathy @ Lee St

Lighting required: No Yes

Transportation Management Plan [TMP] Required: No Yes

If Yes: Project classified as: Non-Significant Significant

TMP Components Anticipated: TTC TO PI

Will Context Sensitive Solutions procedures be utilized? No Yes

Design Exceptions to FHWA/AASHTO controlling criteria anticipated: None

Design Variances to GDOT Standard Criteria anticipated: None

COORDINATION, ACTIVITIES, RESPONSIBILITIES, AND COSTS

Project Meetings: Project Kick-Off Meeting 04/26/2016. Meeting minutes attached.

Project Activity	Party Responsible for Performing Task(s)
Concept Development	Atkins
Design	Atkins
Right-of-Way Acquisition	GDOT
Utility Coordination (Preconstruction)	GDOT
Utility Relocation (Construction)	Utility Owners
Letting to Contract	GDOT
Construction Supervision	GDOT
Providing Material Pits	N/A
Providing Detours	N/A
Environmental Studies, Documents, & Permits	Atkins/GDOT
Environmental Mitigation	N/A
Construction Inspection & Materials Testing	GDOT

Other coordination to date: Kick-Off Meeting 04/26/2016

Project Cost Estimate and Funding Responsibilities:

	Breakdown of PE	ROW**	Reimbursable Utility	CST*	Environmental Mitigation	Total Cost
Funded By	GDOT	GDOT	GDOT	GDOT	N/A	
\$ Amount	\$369,815.71	\$243,000.00	\$610,000.00	\$1,674,067.54	N/A	\$2,896,883.25
Date of Estimate	6/23/2014		7/22/2016	05/13/2016	N/A	

*CST Cost includes: Construction, Engineering and Inspection, and Contingencies.

**ROW Cost was for programming purposes. ROW is not anticipated on this project.

ALTERNATIVES DISCUSSION

No-Build Alternative:			
Estimated Property Impacts:	N/A	Estimated Total Cost:	N/A
Estimated ROW Cost:	N/A	Estimated CST Time:	N/A
Rationale: Does not fulfill the objectives of the Project Justification statement.			

Comments/Additional Information: None

LIST OF ATTACHMENTS/SUPPORTING DATA

1. Revisions to Program Costs
2. Cost Estimate
3. Kick-Off Meeting Minutes

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**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

FILE P.I. No. 00013209 OFFICE Program Delivery

PROJECT DESCRIPTION

I-20 @ 1 LOC & SR 139 @ 8 LOCS IN FULTON COUNTY - SIGNAL UPGRADES

DATE July 29, 2016

From: Alberty Shelby, PE, State Program Delivery Engineer *Alberty Shelby*

To: Lisa L. Myers, State Project Review Engineer
via Email Mailbox: CostEstimatesandUpdates@dot.ga.gov

Subject: REVISIONS TO PROGRAMMED COSTS

PROJECT MANAGER Lindsay Atnip

MGMT LET DATE 11/15/2018

MGMT ROW DATE 8/15/2017

PROGRAMMED COSTS (TPro W/OUT INFLATION)

LAST ESTIMATE UPDATE

CONSTRUCTION \$ 1,305,000.00

DATE

RIGHT OF WAY \$ 243,000.00

DATE

UTILITIES \$

DATE

REVISED COST ESTIMATES

CONSTRUCTION* \$ 1,674,067.54

RIGHT OF WAY \$

UTILITIES \$ 610,000.00

*Cost Contains 5 % Contingency

REASONS FOR COST INCREASE AND CONTINGENCY JUSTIFICATION:

Original project cost was the programming estimate. Updated construction cost estimate was determined using knowledge from the kick-off meeting and proposed work to intersection. Right-of-way costs remain unchanged at this time since it's too early in the project schedule to determine a revised right-of-way cost estimate.

CONTINGENCY SUMMARY

A. CONSTRUCTION COST ESTIMATE:	\$	1,518,428.61	Base Estimate From CES
B. ENGINEERING AND INSPECTION (E & I):	\$	75,921.43	Base Estimate (A) x 5 %
C. CONTINGENCY:	\$	79,717.50	Base Estimate (A) + E & I (B) x 5 % See % Table in "Risk Based Cost Estimation" Memo
D. TOTAL LIQUID AC ADJUSTMENT:	\$	0.00	Total From Liquid AC Spreadsheet
E. CONSTRUCTION TOTAL:	\$	1,674,067.54	(A + B + C + D = E)

REIMBURSABLE UTILTY COSTS

UTILITY OWNER	REIMBURSABLE COST
Georgia Power Company	\$ 610,000.00
AT&T Communications	\$ -
Comcast Cable	\$ -
City of Atlanta Watershed	\$ -
Fulton County Sewer	\$ -
Atlanta Gas Light	\$ -
TOTAL	\$ 610,000.00

ATTACHMENTS: (File Copy in the Project Cost Estimate Folder)

Detailed Cost Estimate Printout From TRAQS

JOB ESTIMATE REPORT

JOB NUMBER : 0013209
DESCRIPTION: I-20 @ 1 LOC & SR 139 @ 8 LOCS IN FULTON COUNTY
SIGNAL UPGRADES

ITEMS FOR JOB 0013209

LINE	ITEM	ALT	UNITS	DESCRIPTION	QUANTITY	PRICE	AMOUNT
0005	150-1000		LS	TRAFFIC CONTROL - 0013209	1.000	198055.91	198055.91
0010	163-0232		AC	TEMPORARY GRASSING	1.000	374.37	374.37
0015	163-0240		TN	MULCH	10.000	356.61	3566.18
0020	210-0100		LS	GRADING COMPLETE - 0013209	1.000	3500.00	3500.00
0025	441-0108		SY	CONC SIDEWALK, 8 IN	900.000	74.38	66944.65
0030	441-6222		LF	CONC CURB & GUTTER/ 8X30TP2	400.000	38.55	15422.59
0035	636-1020		SF	HWY SGN,TP1MAT,REFL SH TP3	300.000	17.94	5384.84
0040	636-1045		SF	HWY SGN,TP2,REFL SH TP 11	900.000	29.28	26352.00
0045	639-4004		EA	STRAIN POLE, TP IV	39.000	7190.63	280434.66
0050	643-8200		LF	BARRIER FENCE (ORANGE), 4 FT	1350.000	1.39	1881.78
0055	647-1000		LS	TRAF SIGNAL INSTALLATION NO - 1	1.000	75000.00	75000.00
0060	647-1000		LS	TRAF SIGNAL INSTALLATION NO - 2	1.000	75000.00	75000.00
0065	647-1000		LS	TRAF SIGNAL INSTALLATION NO - 3	1.000	75000.00	75000.00
0070	647-1000		LS	TRAF SIGNAL INSTALLATION NO - 4	1.000	75000.00	75000.00
0075	647-1000		LS	TRAF SIGNAL INSTALLATION NO - 5	1.000	75000.00	75000.00
0080	647-1000		LS	TRAF SIGNAL INSTALLATION NO - 6	1.000	75000.00	75000.00
0085	647-1000		LS	TRAF SIGNAL INSTALLATION NO - 7	1.000	75000.00	75000.00
0090	647-1000		LS	TRAF SIGNAL INSTALLATION NO - 8	1.000	75000.00	75000.00
0095	647-1000		LS	TRAF SIGNAL INSTALLATION NO - 9	1.000	75000.00	75000.00
0100	653-0120		EA	THERM PVMT MARK, ARROW, TP 2	16.000	91.01	1456.28
0105	653-1501		LF	THERMO SOLID TRAF ST 5 IN, WHI	1350.000	0.83	1131.42
0110	653-1502		LF	THERMO SOLID TRAF ST, 5 IN YEL	675.000	0.86	583.42
0115	653-1704		LF	THERM SOLID TRAF STRIPE,24,WH	1000.000	5.90	5903.11
0120	653-1804		LF	THERM SOLID TRAF STRIPE, 8,WH	13500.000	2.24	30265.65
0125	682-6233		LF	CONDUIT, NONMETL, TP 3, 2 IN	10080.000	5.58	56246.40
0130	682-9950		LF	DIRECTIONAL BORE - 3 IN	4680.000	15.00	70200.00
0135	682-9950		LF	DIRECTIONAL BORE - 5 IN	2700.000	16.00	43200.00
0140	700-6910		AC	PERMANENT GRASSING	1.000	826.22	826.23
0145	700-7000		TN	AGRICULTURAL LIME	9.000	97.01	873.12
0150	700-8000		TN	FERTILIZER MIXED GRADE	9.000	595.71	5361.42
0155	700-8100		LB	FERTILIZER NITROGEN CONTENT	225.000	4.51	1015.12
0160	700-9300		SY	SOD	2350.000	4.93	11602.47
0165	713-3011		SY	WOOD FIBER BLANKET, TP I, SHOULDERS	4700.000	0.50	2361.99
0170	999-5200		SF	DETECTABLE WARNING SURFACE	450.000	23.30	10485.00
ITEM TOTAL							1518428.59
INFLATED ITEM TOTAL							1518428.59

TOTALS FOR JOB 0013209

ESTIMATED COST:
CONTINGENCY PERCENT (0.0) :
ESTIMATED TOTAL:

1518428.61
0.00
1518428.61

Meeting Notes

Project:	0013209, Task Order # 9, 9 Locations in Fulton County		
Subject:	Kick Off Meeting		
Date and time:	26 April 2016 at 1:30 PM		
Meeting place:	GDOT, Program Delivery Conf Room & Teleconference	Notes by:	Keary Lord
Present:	Perry Black Elliott Robertson Bryan Corazzini Stevonn Dilligard Jose Pagan Xuewen Le Keary Lord	Representing:	GDOT GDOT GDOT GDOT Atkins Atkins Atkins
On teleconference:	Alan Davis Sue Anne Decker Kaitlin Barber <i>Other GDOT staff</i>	Representing:	GDOT GDOT Atkins GDOT

NOTES (action items listed in red) (changes since last meeting listed in blue)

1. Perry kicked the meeting off with Introductions.
2. Perry showed a power point PTIP project overview for all of the intersection locations which showed an aerial photo and at-intersection photo.
 - a. Intersection locations:
 - i. I-20 WB at Joseph E Lowery Blvd
 - ii. SR 139 at W Ontario Ave
 - iii. SR 139 at Lucile Ave / Inman St
 - iv. SR 139 at Cascade Ave
 - v. SR 139 at Langhorn St
 - vi. SR 139 at Lawton St
 - vii. SR 139 at Peeples St
 - viii. SR 139 at Joseph E Lowery Blvd
 - ix. SR 139 at Lee St
 - b. Key discussion points for project:
 - i. A clear roadside project was just completed on this corridor
 - ii. Replace all signal equipment at all intersections
 - iii. Some locations have new and adequate ADA ramps
 - iv. Mast arms acceptable if they fit at intersection and span does not work
 - v. Use City of Atlanta dual arm spec for mast arms
 - vi. Install new luminaire only where one currently exists
 - vii. Remove and replace CCTVs (police)
 - viii. Adhere to City's overhead street name sign standard unless illuminated
 - ix. No BBS/UPS on design
 - x. For communications, use 4G routers in each cabinet, no fiber
 1. Communicate with City on project efforts (Bond Program)
 - xi. Replace all 5 section heads to new FYA standard
 - xii. Right of way is tight, use joint use poles if necessary
3. Scope of services was reviewed for the task order.
 - a. Interconnect plans will not be included in design set

4. Schedule
 - a. About 4 months behind from start
 - b. PFPR, January 2017
 - c. FFPR, February 2018
5. Budget
 - a. ROW, \$243,000
 - b. CST, \$1,305,000
 - c. Charge # for GDOT staff, 0010508-PE
6. Other comments/questions
 - a. Project includes CMAQ funding
 - b. Environmental expected to be a CE with potential PCE
 - c. Ecology and air/noise to be conducted in-house at GDOT
 - d. SUE will be performed by GDOT's SUE consultant
 - i. Need survey control package to start
 - ii. 24 series plans will be included in the set
 - e. For on-site field meetings to clarify detailed scope, invite:
 - i. City of Atlanta
 1. Julius Derico & Clyde Moore
 - ii. District 7 Traffic Signal Engineer
 - iii. Kate D'Ambrosio
 - f. Keary requested copy of PTIP presentation
7. Adjourned 2:30 PM

NOTE TO RECIPIENTS:

These meeting notes record Atkins understanding of the meeting and intended actions arising therefrom. Your agreement that the notes form a true record of the discussion will be assumed unless adverse comments are received in writing within five days of receipt.