

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

PROJECT CONCEPT REPORT

County: Whitfield
P. I. Number: 0007484
Federal Route Number: 41, 76
State Route Number: 2, 3, 71, 201

SR 2; SR 3; SR 71 & SR 201 @ SEVERAL LOCATIONS-
TRAFFIC SIGNAL UPGRADES

Submitted for approval: (Submit to "Concept Reports" in Outlook) *UPDATED 12/19/2011*

DATE 8/2/2011

Design Consultant (Travis Hurt, Stantec Consulting Services)

DATE 8/18/2011

Bobby Hilliard
Office Head (Office of Program Delivery)

DATE 8/18/11

Charles A. Roberts
Project Manager

Recommendation for approval:

DATE _____

Program Control Administrator

DATE 1-3-12

* Glenn Bowman / KLP
State Environmental Administrator

DATE 1-3-12

* Kathy Zahul / KLP
State Traffic Engineer

DATE 12-27-11

* Ron Wishon / KLP
Project Review Engineer

DATE 1-3-12

* Sal Pirzad / KLP
for State Utilities Engineer

DATE 1-3-12

* Kent Sager / KLP
District Engineer

DATE _____

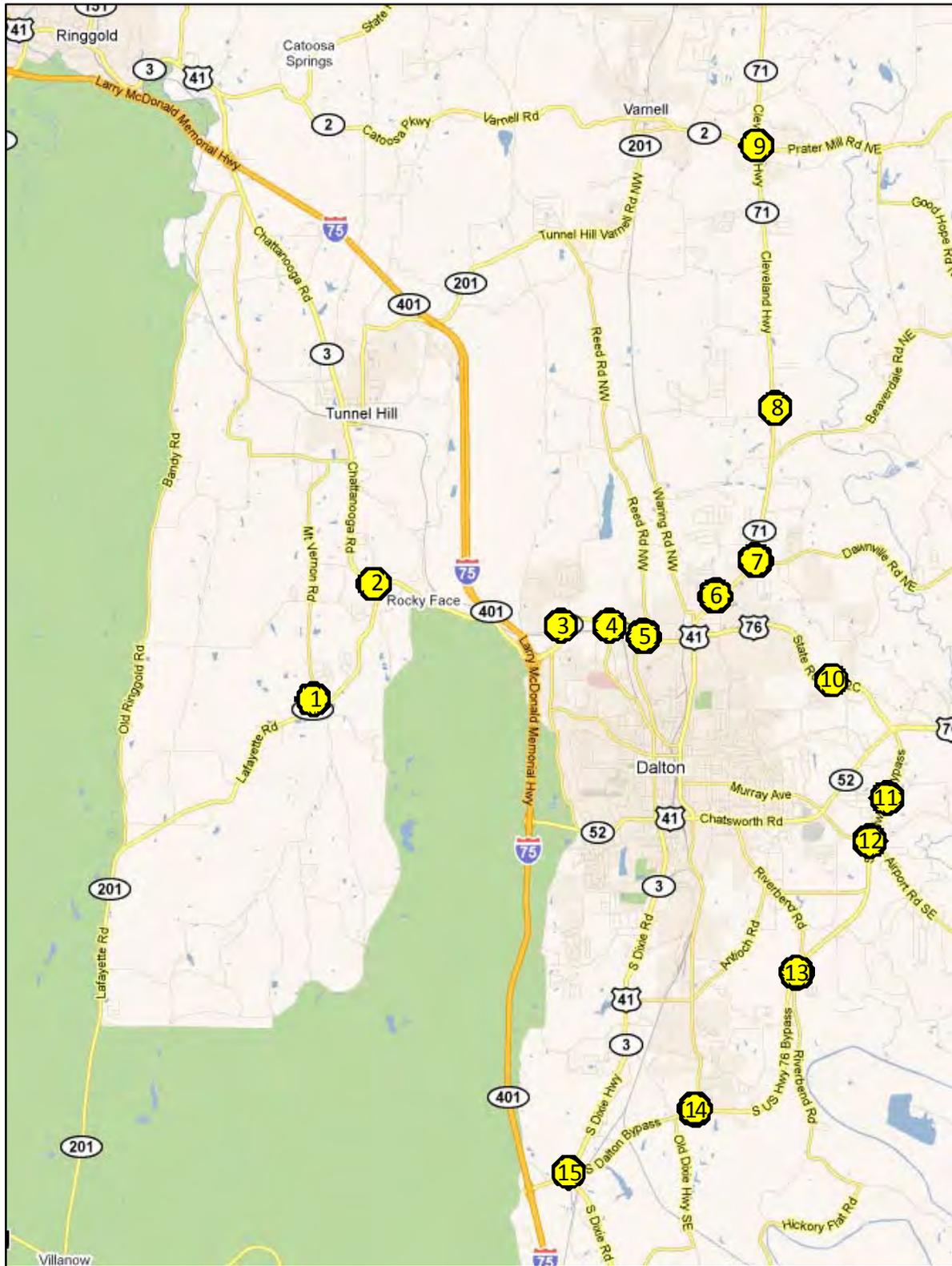
State Transportation Financial Management Administrator

** Recommendation on file*
The concept as presented herein and submitted for approval is consistent with that which is included in the Regional Transportation Program (RTP) and/or the State Transportation Improvement Program (STIP).

DATE 1-5-12

Cynthia L. Nuyke
State Transportation Planning Administrator

LOCATION MAP



Project Number:

P. I. Number: 0007484

County: Whitfield

Need and Purpose: Fifteen (15) signalized intersections in Whitfield County have been identified for upgrades. Specific improvements will bring the intersections into compliance with current design standards and will include: modernization of traffic signal equipment, increased communication capability, and improved pedestrian accommodations.

Description of the proposed project: The proposed project is located in Whitfield County (100%) in and around the City of Dalton. The project will consist of traffic signalization upgrades, including LED vehicular signals, countdown pedestrian signals, ADA wheelchair ramps, and crosswalk striping at all 15 locations.

The project locations are:

1. SR 201 (LaFayette Road) @ Mt. Vernon Road/Utility Road
2. SR 3 (Chattanooga Road) @ SR 201 (LaFayette Road)
3. SR 3 (Dalton Bypass) @ Willowdale Road
4. SR 3 (Dalton Bypass) @ Thornton Avenue
5. SR 3 (Dalton Bypass) @ Reed Road
6. SR 71 (Cleveland Highway) @ Westbrook Road
7. SR 71 (Cleveland Highway) @ Dawnville Road
8. SR 71 (Cleveland Highway) @ Williams Road/Maresca Drive
9. SR 2 @ SR 71 (Cleveland Highway)
10. SR 3 (Dalton Bypass) @ Underwood Road
11. SR 3 (Dalton Bypass) @ Old Grade Road
12. SR 3 (Dalton Bypass) @ Airport Road
13. SR 3 (Dalton Bypass) @ Riverbend Road
14. SR 3 (Dalton Bypass) @ Abutment Road
15. SR 3 (Dalton Bypass) @ SR 3 (S. Dixie Road)

Is the project located in a PM 2.5 Non-attainment area? _____ Yes No

Is this project located in an Ozone Non-attainment area? _____ Yes No

PDP Classification: Major _____ Minor

Federal Oversight: Full Oversight () Exempt (X) State Funded () or Other ()

Functional Classification:

- SR 201 (LaFayette Rd.) – Urban Minor Arterial northeast of Mt. Vernon Rd., Rural Major Collector southwest of Mt. Vernon Rd.
- Mt. Vernon Road – Rural Major Collector
- Utility Road – Rural Local Road
- SR 3 (Chattanooga Road) – Urban Minor Arterial
- SR 3 (Dalton Bypass) – Urban Principal Arterial
- Willowdale Road – Urban Local Street
- Thornton Avenue – Urban Minor Arterial
- Reed Road – Urban Collector Street
- SR 71 (Cleveland Highway) – Urban Minor Arterial
- Westbrook Road – Urban Local Street

- Dawnville Road. – Urban Minor Arterial
- Williams Road – Urban Local Street
- Maresca Drive – Urban Local Street
- SR 2 – Urban Minor Arterial
- Underwood Road – Urban Minor Arterial south of SR 3 (Dalton Bypass), Urban Local Road north of SR 3 (Dalton Bypass)
- Old Grade Road – Urban Local Street
- Airport Road – Urban Minor Arterial
- Riverbend Road – Urban Collector Street
- Abutment Road – Urban Local Street
- SR 3 (S. Dixie Road) – Urban Principal Arterial north of SR 3 (Dalton Bypass), Urban Minor Arterial south of SR 3 (Dalton Bypass)

U. S. Route Number(s): 41, 76 **State Route Number(s):** 2, 3, 71, 201

Traffic (AADT): This project will not add capacity.

Base Year: (20XX) Design Year: (20YY)

Existing design features:

- Typical Section:
 - SR 201 (LaFayette Rd.) –
 - Two lanes with a southbound right turn lane at Mt. Vernon Rd.
 - Two lanes with a northbound right turn lane at SR 3 (Chattanooga Rd.)
 - Mt. Vernon Road – Two lanes
 - Utility Road – Two lanes
 - SR 3 (Chattanooga Road) – Four lanes, plus a center lane that becomes a westbound left turn lane at SR 201 (LaFayette Rd.)
 - SR 3 (Dalton Bypass) –
 - Four lanes with a northbound left turn lane at Willowdale Rd.
 - Four lanes with a westbound left turn lane at Thornton Ave.
 - Four lanes plus left and right turns lanes in both directions at Reed Rd.
 - Four lanes plus left and right turns lanes in both directions at Underwood Rd.
 - Four lanes plus left and right turns lanes in both directions at Old Grade Rd.
 - Four lanes plus left and right turns lanes in both directions at Airport Rd.
 - Four lanes plus a northbound left turn lane and a southbound right turn lane at Riverbend Rd.
 - Four lanes plus left and right turns lanes in both directions at Abutment Rd.
 - Four lanes plus left and right turns lanes in both directions at SR 3 (S. Dixie Rd.)
 - Willowdale Road – Two lanes with a right turn lane at SR 3 (Dalton Bypass)
 - Thornton Avenue – Two lanes with a right turn lane at SR 3 (Dalton Bypass)
 - Reed Road – Two lanes with right turn lanes in both directions at SR 3 (Dalton Bypass)
 - SR 71 (Cleveland Highway) –
 - Four lanes with left turn lanes in both directions at Westbrook Rd.
 - Four lanes with left turn lanes in both directions at Dawnville Rd.
 - Four lanes with left turn lanes in both directions at Williams Rd./Maresca Dr.
 - Four lanes with left and right turn lanes in both directions at SR 2
 - Westbrook Road – Two lanes
 - Dawnville Road. – Two lanes with a right turn lane at SR 71 (Cleveland Hwy.)
 - Williams Road – Two lanes with a right turn lane at SR 71 (Cleveland Hwy.)

- Maresca Drive – Two lanes
- SR 2 – Two lanes with left and right turn lanes in both directions at SR 71 (Cleveland Hwy.)
- Underwood Road – Two lanes and right turn lanes in both directions at SR 3 (Dalton Bypass)
- Old Grade Road – Two lanes and right turn lanes in both directions at SR 3 (Dalton Bypass)
- Airport Road – Two lanes with left and right turn lanes in both directions at SR 3 (Dalton Bypass)
- Riverbend Road – Two lanes and a right turn lane at SR 3 (Dalton Bypass)
- Abutment Road – Four lanes plus a center turn lane, the center turn lane becomes a southbound left turn lane and one lane becomes a southbound right turn lane at SR 3 (Dalton Bypass)
- SR 3 (S. Dixie Rd.) – Two lanes with left and right turn lanes in both directions at SR 3 (Dalton Bypass)

- Posted speed:
 - SR 201 (LaFayette Rd.) – 45 mph
 - Mt. Vernon Road – 35 mph
 - Utility Road – 45 mph
 - SR 3 (Chattanooga Road) – 55 mph
 - SR 3 (Dalton Bypass) – 45 mph south and west of Willowdale Rd., 55 mph otherwise
 - Willowdale Road – 45 mph
 - Thornton Avenue – 45 mph
 - Reed Road – 40 mph
 - SR 71 (Cleveland Highway) – 45 mph, 55 mph north of SR 2
 - Westbrook Road – 35 mph
 - Dawnville Road. – 45 mph
 - Williams Road – 35 mph
 - Maresca Drive – 25 mph
 - SR 2 – 55 mph
 - Underwood Road – 40 mph north of SR 3, 35 mph south of SR 3
 - Old Grade Road – 45 mph
 - Airport Road – 40 mph
 - Riverbend Road – 35 mph
 - Abutment Road – 45 mph
 - SR 3 (S. Dixie Road) – 45 mph

- Minimum radius for curve: N/A
- Maximum super-elevation rate for curve: N/A
- Maximum grade: N/A %
- Width of right-of-way: To Be Determined once survey is complete.
- Major structures: N/A
- Major interchanges or intersections along the project. N/A
- Existing length of roadway segment:
 - SR 201 (LaFayette Road) @ Mt. Vernon Road/Utility Road – MP 6.13 to MP 6.16
 - SR 3 (Chattanooga Road) @ SR 201 (LaFayette Road) – MP 23.24 to MP 23.25
 - SR 3 (Dalton Bypass) @ Willowdale Road – MP 20.14 to MP 20.15
 - SR 3 (Dalton Bypass) @ Thornton Avenue – MP 19.38 to MP 19.39

- SR 3 (Dalton Bypass) @ Reed Road – MP 18.82 to MP 18.83
 - SR 71 (Cleveland Highway) @ Westbrook Road – MP 0.67 to MP 0.72
 - SR 71 (Cleveland Highway) @ Dawnville Road – MP 1.32 to MP 1.37
 - SR 71 (Cleveland Highway) @ Williams Road/Maresca Drive – MP 3.36 to MP 3.40
 - SR 2 @ SR 71 (Cleveland Highway) – MP 7.04 to MP 7.09
 - SR 3 (Dalton Bypass) @ Underwood Road – MP 15.75 to MP 15.76
 - SR 3 (Dalton Bypass) @ Old Grade Road – MP 13.58 to MP 13.61
 - SR 3 (Dalton Bypass) @ Airport Road – MP 13.05 to MP 13.11
 - SR 3 (Dalton Bypass) @ Riverbend Road – MP 11.06 to MP 11.09
 - SR 3 (Dalton Bypass) @ Abutment Road – MP 7.94 to MP 8.00
 - SR 3 (Dalton Bypass) @ SR 3 (S. Dixie Road) – MP 5.92 to MP 5.93
- No ITS

Proposed Design Features:

- Proposed typical section(s): No changes from existing.
- Proposed Design Speed Mainline N/A mph
- Proposed Maximum grade Mainline N/A %
- Maximum grade allowable N/A %
- Proposed Maximum grade Side Street N/A %
- Maximum grade allowable N/A %
- Proposed Maximum grade driveway N/A %
- Proposed Maximum degree of curve N/A
- Maximum degree allowable N/A
- Maximum super elevation rate N/A
- Right-of-Way:
 - Width Corner Miters only, as necessary
 - Easements: Temporary (N/A) Permanent (N/A) Utility (N/A) Other (N/A).
 - Type of access control: Full () Partial () By Permit (X) Other ().
 - Number of parcels: est. 7 Number of displacements: 0
 - Business: 0
 - Residences: 0
 - Mobile homes: 0
 - Other: 0
- Structures:
 - Bridges (N/A)
 - Retaining walls (N/A)
- Major intersections, interchanges, median openings and signal locations.
 - SR 201 (LaFayette Road) @ Mt. Vernon Road/Utility Road
 - SR 3 (Chattanooga Road) @ SR 201 (LaFayette Road)
 - SR 3 (Dalton Bypass) @ Willowdale Road
 - SR 3 (Dalton Bypass) @ Thornton Avenue
 - SR 3 (Dalton Bypass) @ Reed Road
 - SR 71 (Cleveland Highway) @ Westbrook Road

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- o SR 71 (Cleveland Highway) @ Dawnville Road
- o SR 71 (Cleveland Highway) @ Williams Road/Maresca Drive
- o SR 2 @ SR 71 (Cleveland Highway)
- o SR 3 (Dalton Bypass) @ Underwood Road
- o SR 3 (Dalton Bypass) @ Old Grade Road
- o SR 3 (Dalton Bypass) @ Airport Road
- o SR 3 (Dalton Bypass) @ Riverbend Road
- o SR 3 (Dalton Bypass) @ Abutment Road
- o SR 3 (Dalton Bypass) @ SR 3 (S. Dixie Road)

- ITS: None
- Transportation Management Plan Anticipated: Yes () No (X)
- Design Exceptions to controlling criteria anticipated:

	<u>YES</u>	<u>NO</u>	<u>UNDETERMINED</u>
HORIZONTAL ALIGNMENT:	()	(X)	()
LANE WIDTH:	()	(X)	()
SHOULDER WIDTH:	()	(X)	()
VERTICAL GRADES:	()	(X)	()
CROSS SLOPES:	()	(X)	()
STOPPING SIGHT DISTANCE:	()	(X)	()
SUPERELEVATION RATES:	()	(X)	()
VERTICAL ALIGNMENT:	()	(X)	()
SPEED DESIGN:	()	(X)	()
VERTICAL CLEARANCE:	()	(X)	()
BRIDGE WIDTH:	()	(X)	()
BRIDGE STRUCTURAL CAPACITY:	()	(X)	()
LATERAL OFFSET TO OBSTRUCTION:	()	(X)	()

- Design Variances: None.
- Environmental concerns
 - o Historic resources and UST sites identified during preliminary scoping; No Section 404 permits, water quality issues, or T&E species/habitat concerns are anticipated; no archaeology concerns anticipated
- Anticipated Level of environmental analysis:
 - o Are Time Savings Procedures appropriate? Yes (X) No ()
 - o Categorical exclusion anticipated (X).
 - o Environmental Assessment/Finding of No Significant Impact anticipated (FONSI)().
 - o Environmental Impact Statement (EIS)().
- Utility involvements: Communications and Power.
- Public Interest Determination Policy and Procedure recommended? Yes () No (X)
- VE Study Anticipated Yes () No (X)
- Benefit/Cost Ratio N/A

Project Cost Estimate and Funding Responsibilities:

	PE	ROW	UTILITY	CST	MITIGATION
By Whom	GDOT	GDOT	GDOT	GDOT	N/A
\$ Amount	365,000	101,000	414,000	1,829,034*	N/A

*Cost Contains 5% Engineering and Inspection.

Project Activities Responsibilities:

- Design: Stantec
- Right-of-Way Acquisition: GDOT
- Right-of-Way funding (real property): GDOT
- Relocation of Utilities: GDOT
- Letting to contract: GDOT
- Supervision of construction: GDOT
- Providing material pits: GDOT
- Providing detours: GDOT
- Environmental Studies/Documents/Permits: GDOT
- Environmental Mitigation: N/A

Coordination

- Initial Concept Meeting date and brief summary. (6/23/2011, see attached minutes)
- Concept meeting date and brief summary. (N/A)
- P A R meetings, dates and results. (N/A)
- FEMA, USCG, and/or TVA. (N/A)
- Public involvement. (N/A)
- Local government comments. (N/A)
- Other projects in the area. (None)
- Railroads. (N/A)
- Other coordination to date. (N/A)

Other alternates considered: None.

Comments: None.

**GEORGIA DEPARTMENT OF TRANSPORTATION
OFFICE OF PROGRAM DELIVERY**

Meeting Minutes

Subject: Initial Concept Meeting
Traffic Signal Upgrade Projects
PI No. 0007484 – Whitfield County

Date of Meeting: 6/23/2011, 9:30 AM

Meeting Location: GDOT Dalton Area Office

Attendees: Derrick Cameron – GDOT Program Delivery, Charles A. Robinson – GDOT Program Delivery, Charlotte Weber – HNTB, Devon Brooks – GDOT, Kerry Bonner – GDOT District 6 Utilities, Tim Hatton – HNTB, Joe Highfield – GDOT, Robby Roberson – GDOT, Chad Wilkie – GDOT, Alex Rice – City of Dalton, Brandon Kennedy – Stantec, Travis Hurt – Stantec.

Date Prepared: June 29, 2011

Prepared By: Travis Hurt, PE, PTOE, Stantec

The following summarizes the office portion of the meeting which was a general discussion of the project.

The following intersections are to be included in the Whitfield County project:

Int. No.	Pirmary Route	Intersecting Route/Street
1	SR 201 (LaFayette Rd)	Mt. Vernon Rd/Utility Rd
2	SR 3 (Chattanooga Rd)	SR 201 (LaFayette Rd)
3	SR 3 (Dalton Bypass)*	Willowdale Rd*
4	SR 3 (Dalton Bypass)	Thornton Ave
5	SR 3 (Dalton Bypass)	Reed Rd
6	SR 71 (Cleveland Hwy)	Westbrook Rd
7	SR 71 (Cleveland Hwy)	Dawnville Rd
8	SR 71 (Cleveland Hwy)*	Williams Rd/Maresca Rd*
9	SR 2	SR 71 (Cleveland Hwy)
10	SR 3 (Dalton Bypass)	Underwood Rd
11	SR 3 (Dalton Bypass)	Old Grade Rd
12	SR 3 (Dalton Bypass)	Airport Rd
13	SR 3 (Dalton Bypass)	Riverbend Rd
14	SR 3 (Dalton Bypass)	Abutment Rd
15	SR 3 (Dalton Bypass)	SR 3 Connector

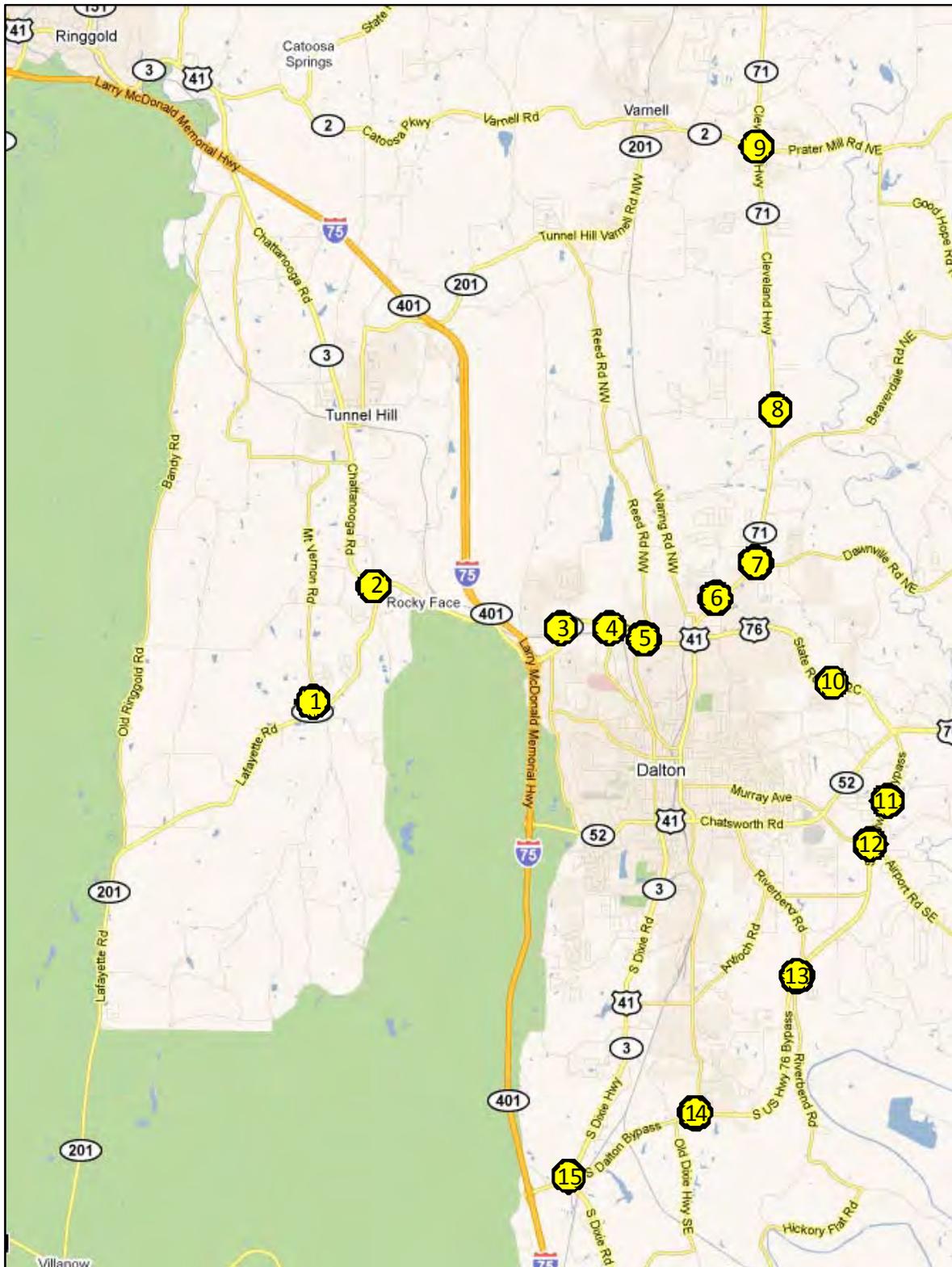
*These intersections were added to replace the intersections of SR 3 @ SR 71, SR 3 @ Shugart Road, and SR 3 @ East and Tibbs Rd.

1. The Prime Consultant on the project is Stantec, and Stantec will prepare plans.
2. The TP 3 pull boxes will be used on each cabinet corner unless a TP 7 pull box is required for interconnect. TP 2 pull boxes will be used for all other locations.
3. The battery backup for each controller will be specified to be installed in an external cabinet.
4. On the General Notes, it will be specified that all existing equipment to be returned to GDOT District office.
5. Existing fiber drops will be reused where possible.
6. Luminaires will be replaced if they are on poles being removed.
7. A planned project was identified at the intersection of SR 3 (Dalton Bypass) and Airport Road that may require coordination with this project.
8. No coordination with Rail Road is required for this project.
9. The environmental coordination will be provided by HNTB.

10. All painted-only islands will be removed. Accompanying "Yield" signs will also be removed.
11. Striping tape with black contrast shall be used for all traffic striping on concrete pavement.

At the conclusion of the office discussion, the group met at each intersection to investigate the existing conditions and decide upon a conceptual improvement plan. On the following pages, the conceptual plans for each intersection are described.

PI# 0007484 - Whitfield County Locations



CONCEPTUAL SIGNAL IMPROVEMENT PLANS

INTERSECTION #1 – SR 201 (LaFayette Rd) @ Mt. Vernon Rd/Utility Rd

Poles and Signal Displays

Install self-supporting joint-use poles on the southeast and northwest corners.
Install new concrete strain poles on the northeast and southwest corners.
Install a new signal span, LED displays with backplates, and D-Spec signs.

Signal Control Equipment

Install new Model 332 cabinet with a 2070L controller on the southwest corner.

Pedestrian Accommodations

Install crosswalks across all intersection legs.
Install new ADA ramps on the southwest, and southeast corners.
Cut through raised asphalt areas on the northwest and northeast corners to provide pedestrian access.
Install a concrete cut-through island in the northwest quadrant.
Install pedestrian signals and pushbuttons.

Right of Way Acquisition Anticipated

Expected on northeast and northwest corners.

Other Items

Eliminate private parking from state right-of-way.

System Communication

None.

INTERSECTION #2 – SR 3 (Chattanooga Rd) @ SR 201 (LaFayette Rd)

Poles and Signal Displays

Install self-supporting joint-use poles on the southwest and northeast corners.
Install new concrete strain poles on the northwest and southeast corners.
Install a new signal span, LED displays with backplates, and D-Spec signs.

Signal Control Equipment

Install new Model 332 cabinet with a 2070L controller on the southeast corner.

Pedestrian Accommodations

Install crosswalks across all intersection legs.
Install new ADA ramps on the southwest, northwest, and northeast corners.
Replace the ADA ramp on the southeast corner.
Reconstruct the concrete island in the southeast quadrant.
Install pedestrian signals and pushbuttons.

Right of Way Acquisition Anticipated

None.

Other Items

Install guardrail, if needed, on the north side of the intersection to allow minimum spacing between strain poles and power lines.

System Communication

None.

INTERSECTION #3 – SR 3 (Dalton Bypass) @ Willowdale Rd

Poles and Signal Displays

Install new concrete strain poles on all corners.

Install a new signal span, LED displays with backplates, and D-Spec signs.

Signal Control Equipment

Install new Model 332 cabinet with a 2070L controller on the northwest corner.

Use video for vehicle detection on the bridge on the south leg of the intersection.

Pedestrian Accommodations

Install crosswalks across all intersection legs.

Install new concrete landings on the southwest, and northwest corners.

Reconstruct the concrete island in the southwest quadrant.

Remove the painted island in the northwest quadrant.

Install pedestrian signals and pushbuttons.

Right of Way Acquisition Anticipated

None.

Other Items

Power lines above signal span will need to be raised and/or relocated.

System Communication

Reuse existing fiber drop to communicate with Haig Mill Lake Rd.

INTERSECTION #4 – SR 3 (Dalton Bypass) @ Thornton Ave.

Poles and Signal Displays

Install self-supporting joint-use poles on the southeast and northeast corners (if the existing poles are not located on private property).

Install concrete strain poles on the southwest and northwest corners.

Relocate luminaires on the poles on the southeast and southwest corners.

Install a new signal span, LED displays with backplates, and D-Spec signs.

Signal Control Equipment

Install new Model 332 cabinet with a 2070L controller on the southeast corner.

Pedestrian Accommodations

Install crosswalks on all legs.

Install new concrete landings on all corners.

Install a concrete island on the southeast quadrant, if possible.

Install pedestrian signals and pushbuttons.

Right of Way Acquisition Anticipated

None.

Other Items

System Communication

None.

INTERSECTION #5 – SR 3 (Dalton Bypass) @ Reed Rd.

Poles and Signal Displays

Install self-supporting joint-use poles on the southwest and northeast corners.
Install concrete strain poles on the southeast and northwest corners.
Relocate luminaire on the pole on the northwest corner.
Install a new signal span, LED displays with backplates, and D-Spec signs.

Signal Control Equipment

Install new Model 332 cabinet with a 2070L controller on the southwest corner.

Pedestrian Accommodations

Install crosswalks on all legs.
Install new ADA ramps on all corners.
Install a new concrete island on the northeast quadrant.
Reconstruct the concrete island in the northwest quadrant.
Install pedestrian signals and pushbuttons.

Right of Way Acquisition Anticipated

None anticipated.

Other Items

System Communication

None.

INTERSECTION #6 – SR 71 (Cleveland Hwy) @ Westbrook Rd.

Poles and Signal Displays

Install a self-supporting joint-use pole on the northeast corner.

Install concrete strain poles on the southeast, southwest and northwest corners.

Install a new signal span, LED displays with backplates, and D-Spec signs.

Signal Control Equipment

Install new Model 332 cabinet with a 2070L controller on the northwest corner.

Pedestrian Accommodations

Reuse crosswalks if they are applicable.

Install new ADA ramps on all corners.

Install pedestrian signals and pushbuttons.

Right of Way Acquisition Anticipated

None anticipated.

Other Items

System Communication

None.

INTERSECTION #7 – SR 71 (Cleveland Hwy) @ Dawnville Rd.

Poles and Signal Displays

Install self-supporting joint-use poles on the southeast and southwest corners.
Install concrete strain poles on the northeast and northwest corners.
Install a new signal span, LED displays with backplates, and D-Spec signs.

Signal Control Equipment

Install new Model 332 cabinet with a 2070L controller on the northeast corner.

Pedestrian Accommodations

Install crosswalks on the north and east legs.
Relocate crosswalk on the south leg.
Keep existing ADA ramps on the northeast and southeast corners.
Install new ADA ramps on the southwest and northwest corners.
Reconstruct the concrete island in the northeast quadrant.
Install pedestrian signals and pushbuttons.

Right of Way Acquisition Anticipated

Possibly on the west side of SR 71.

Other Items

System Communication

None.

INTERSECTION #8 – SR 71 (Cleveland Hwy) @ Williams Rd./Maresca Rd.

Poles and Signal Displays

Install concrete strain poles on all corners.

Install a new signal span, LED displays with backplates, and D-Spec signs.

If necessary, install overhead guys to properly locate signal span between utilities.

Signal Control Equipment

Install new Model 332 cabinet with a 2070L controller on the northeast corner.

Pedestrian Accommodations

Install crosswalks on all legs.

Install new ADA ramps on all corners.

Install pedestrian signals and pushbuttons.

Right of Way Acquisition Anticipated

Southwest and southeast corners.

Other Items

Rebuild part of the driveway on the southwest corner to accommodate ADA requirements.

System Communication

None.

INTERSECTION #9 – SR 2 @ SR 71 (Cleveland Hwy)

Poles and Signal Displays

Install concrete strain poles on all corners.

Replace luminaires on the southwest, southeast, and northeast corners.

Install a new signal span, LED displays with backplates, and D-Spec signs.

Signal Control Equipment

Install new Model 332 cabinet with a 2070L controller on the southwest corner.

Pedestrian Accommodations

Install crosswalks on all legs.

Install new ADA ramps on all corners.

Install concrete islands in the northwest and southeast quadrants, if possible.

Install pedestrian signals and pushbuttons.

Right of Way Acquisition Anticipated

None.

Other Items

Replace traffic striping.

Check the radius of the northwest corner.

System Communication

None.

INTERSECTION #10 – SR 3 (Dalton Bypass) @ Underwood Rd.

Poles and Signal Displays

Install self-supporting joint-use poles on the northeast and southeast corners.
Install concrete strain poles on the southwest and northwest corners.
Install a new signal span, LED displays with backplates, and D-Spec signs.

Signal Control Equipment

Install new Model 332 cabinet with a 2070L controller on the northwest corner.

Pedestrian Accommodations

Replace crosswalks as necessary.
Install new ADA ramps on the southeast and northwest islands.
Install concrete landing pads on all corners.
Install pedestrian signals and pushbuttons.

Right of Way Acquisition Anticipated

None.

Other Items

System Communication

None.

INTERSECTION #11 – SR 3 (Dalton Bypass) @ Old Grade Rd.

Poles and Signal Displays

Install self-supporting joint-use poles on the northwest corner.

Install concrete strain poles on the northeast, southeast, and southwest corners.

Install a new signal span, LED displays with backplates, and D-Spec signs.

Signal Control Equipment

Install new Model 332 cabinet with a 2070L controller on the southeast corner.

Pedestrian Accommodations

Install crosswalks on the north, west, and east legs.

Install concrete path through median.

Install curb and gutter on the southwest and southeast corners to provide pedestrian refuge areas.

Install concrete landings on the northwest and northeast corners.

Install concrete islands in the southwest and northeast quadrants, if possible.

Install pedestrian signals and pushbuttons.

Right of Way Acquisition Anticipated

None.

Other Items

Fix striping as needed.

System Communication

None.

INTERSECTION #12 – SR 3 (Dalton Bypass) @ Airport Rd.

Poles and Signal Displays

Install self-supporting joint-use pole on the southeast corner.

Install concrete strain poles on the northeast, northwest, and southwest corners.

Install a new signal span, LED displays with backplates, and D-Spec signs.

Signal Control Equipment

Install new Model 332 cabinet with a 2070L controller on the southeast corner.

Pedestrian Accommodations

Install crosswalks on all legs.

Install new ADA ramps on all corners.

Install a concrete island in the southeast quadrant.

Install pedestrian signals and pushbuttons.

Right of Way Acquisition Anticipated

None.

Other Items

Fix striping as needed.

Grade southeast corner down to ADA ramp.

Remove unused cabinet base located near the utility pole on the southeast corner.

Coordinate with Whitfield County traffic project.

System Communication

None.

INTERSECTION #13 – SR 3 (Dalton Bypass) @ Riverbend Rd.

Poles and Signal Displays

Install concrete strain poles on all corners.

Install a new signal span, LED displays with backplates, and D-Spec signs.

Signal Control Equipment

Install new Model 332 cabinet with a 2070L controller on the southwest corner.

Pedestrian Accommodations

*See "Other Items" regarding pedestrian accommodations on the east side of the intersection.

Install curb and gutter on the northwest corner to provide a pedestrian refuge.

Install a concrete landing on the southwest corner.

Install a concrete island in the northwest quadrant.

Install pedestrian signals and pushbuttons.

Right of Way Acquisition Anticipated

Possibly east side of intersection, depending on pedestrian accommodations.

Other Items

***Discussion to take place regarding guardrail along the east side of the intersection and what can be done to accommodate pedestrians.**

System Communication

None.

INTERSECTION #14 – SR 3 (Dalton Bypass) @ Abutment Rd.

Poles and Signal Displays

Install self-supporting joint-use poles on the southeast corner.

Install concrete strain poles on the northeast, northwest, and southwest corners.

Locate the strain pole on the northwest corner no farther south than the existing pole.

Install a new signal span, LED displays with backplates, and D-Spec signs.

Signal Control Equipment

Install new Model 332 cabinet with a 2070L controller on the northeast corner.

Pedestrian Accommodations

Install crosswalks on all legs.

Install new ADA ramps on all corners.

Reconstruct the concrete island in the northwest quadrant.

Install pedestrian signals and pushbuttons.

Right of Way Acquisition Anticipated

Southeast corner.

Other Items

Pedestrian crossings should continue through medians with no stop (push buttons).

System Communication

None.

INTERSECTION #15 – SR 3 (Dalton Bypass) @ SR 3 Connector

Poles and Signal Displays

Install concrete strain poles on the northeast, northwest, and southwest islands, and on the southeast corner.

Install a new signal span, LED displays with backplates, and D-Spec signs.

Signal Control Equipment

Install new Model 332 cabinet with a 2070L controller on the southwest corner.

Pedestrian Accommodations

Install crosswalks on all legs.

Install new ADA ramps on the islands.

Install concrete landing pads on all corners.

Install pedestrian signals and pushbuttons.

Right of Way Acquisition Anticipated

None.

Other Items

Remove the painted island and yield sign on the southeast corner.

Estimate the cost of paving the islands with concrete.

System Communication

None.

DATE : 01/31/2012
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JOB ESTIMATE REPORT

JOB NUMBER : 0007484
 DESCRIPTION: WHITFIELD SIGNALS

SPEC YEAR: 01

ITEMS FOR JOB 0007484

LINE	ITEM	ALT	UNITS	DESCRIPTION	QUANTITY	PRICE	AMOUNT
0002	647-1000		LS	TRAF SIGNAL INSTALLATION NO - 0010116	1.000	75000.00	75000.00
0003	441-0108		SY	CONC SIDEWALK, 8 IN	900.000	56.29	50662.10
0008	647-1000		LS	TRAF SIGNAL INSTALLATION NO - 0010116	1.000	75000.00	75000.00
0013	647-1000		LS	TRAF SIGNAL INSTALLATION NO - 0010116	1.000	75000.00	75000.00
0018	647-1000		LS	TRAF SIGNAL INSTALLATION NO - 0010116	1.000	75000.00	75000.00
0023	647-1000		LS	TRAF SIGNAL INSTALLATION NO - 0010116	1.000	75000.00	75000.00
0028	647-1000		LS	TRAF SIGNAL INSTALLATION NO - 0010116	1.000	75000.00	75000.00
0033	647-1000		LS	TRAF SIGNAL INSTALLATION NO - 7	1.000	75000.00	75000.00
0038	647-1000		LS	TRAF SIGNAL INSTALLATION NO - 8	1.000	75000.00	75000.00
0043	647-1000		LS	TRAF SIGNAL INSTALLATION NO - 9	1.000	75000.00	75000.00
0048	647-1000		LS	TRAF SIGNAL INSTALLATION NO - 10	1.000	75000.00	75000.00
0053	647-1000		LS	TRAF SIGNAL INSTALLATION NO - 11	1.000	75000.00	75000.00
0058	647-1000		LS	TRAF SIGNAL INSTALLATION NO - 12	1.000	75000.00	75000.00
0063	441-6222		LF	CONC CURB & GUTTER/ 8"X30"TP2	1800.000	12.83	23105.52
0068	615-1200		LF	DIRECTIONAL BORE - ALL SIZES	1500.000	9.84	14766.03
0073	636-1041		SF	HWY SIGNS, TP 2MAT, REFL SH TP 9	450.000	25.70	11568.09
0088	639-4004		EA	STRAIN POLE, TP IV	60.000	5235.32	314119.73
0093	163-0232		AC	TEMPORARY GRASSING	1.000	417.13	417.13
0098	163-0240		TN	MULCH	3.000	240.60	721.81
0103	163-0550		EA	CONS & REM INLET SEDIMENT TRAP	15.000	147.18	2207.82
0108	165-0030		LF	MAINT OF TEMP SILT FENCE, TP C	9000.000	0.59	5386.41
0113	165-0105		EA	MAINT OF INLET SEDIMENT TRAP	15.000	52.40	786.09
0118	171-0030		LF	TEMPORARY SILT FENCE, TYPE C	9000.000	2.72	24525.99
0123	653-0120		EA	THERM PVMT MARK, ARROW, TP 2	24.000	68.70	1648.91
0128	653-1501		LF	THERMO SOLID TRAF ST 5 IN, WHI	1200.000	0.51	618.13
0133	653-1502		LF	THERMO SOLID TRAF ST, 5 IN YEL	2000.000	0.44	893.66
0138	653-1704		LF	THERM SOLID TRAF STRIPE, 24", WH	1100.000	2.67	2943.64
0143	653-1804		LF	THERM SOLID TRAF STRIPE, 8", WH	9600.000	1.60	15367.39
0148	682-6233		LF	CONDUIT, NONMETL, TP 3, 2 IN	3000.000	3.26	9799.56
0153	700-7000		TN	AGRICULTURAL LIME	1.000	82.67	82.67
0163	700-8000		TN	FERTILIZER MIXED GRADE	0.200	440.06	88.01
0168	937-6050		EA	INT VIDEO DET SYS ASMBLY, TP A	1.000	4152.50	4152.51
0173	937-6150		EA	PROGRAMMING MONITOR, TP A	1.000	453.54	453.55
0178	935-6562		EA	EXT TRNSCVR, DRP&RPT, 1310SM, (SIGNAL JOBS)	1.000	1485.04	1485.05
0183	935-3602		EA	FBR. OP. CLOS., FDC PRE-TERM., TYP. A, 6	1.000	466.41	466.42
0203	150-1000		LS	TRAFFIC CONTROL - 6 PERCENT	1.000	97202.00	97202.00
0208	657-5017		EA	PRF PL PVT MKG, ARW TP2, WH, TPPB	10.000	471.77	4717.73
0213	657-1054		LF	PRF PL SD PVMT MKG, 5", WH, TP PB	300.000	4.65	1395.95
0218	657-6054		LF	PRF PL SD PVMT MKG, 5", YW, TP PB	500.000	4.48	2241.93
0223	657-1244		LF	PRF PL SD PVMT MKG, 24", WH, TPPB	400.000	13.55	5420.37
0228	657-1085		LF	PRF PL SD PVT MKG, 8", B/W, TP PB	2400.000	5.27	12667.44
0233	647-1000		LS	TRAF SIGNAL INSTALLATION NO - 13	1.000	75000.00	75000.00

DATE : 01/31/2012
PAGE : 2

JOB ESTIMATE REPORT

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0238 647-1000      LS   TRAF SIGNAL INSTALLATION NO - 14      1.000    75000.00    75000.00
0243 647-1000      LS   TRAF SIGNAL INSTALLATION NO - 15      1.000    75000.00    75000.00
0253 441-0108      SY   CONC SIDEWALK, 8 IN                   105.000     66.90     7025.33
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ITEM TOTAL                                     1741936.96
INFLATED ITEM TOTAL                           1741936.97
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TOTALS FOR JOB 0007484

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ESTIMATED COST:                               1741936.97
CONTINGENCY PERCENT ( 0.0 ):                   0.00
ESTIMATED TOTAL:                               1741936.97
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**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

FILE CSSTP-0007-00(484); Whitfield Co. OFFICE Cartersville
Traffic Signal Upgrades
P.I. No. 0007484 DATE December 8, 2011

FROM  Kerry D. Bonner
District Utilities Engineer

TO Bobby Hilliard, P.E., Office of Program Delivery
ATTN Charles Robinson, Project Manager

SUBJECT UPDATED PRELIMINARY UTILITY COST ESTIMATE

As requested by your office, we are furnishing you with a Preliminary Utility Cost estimates for each utility with facilities potentially located within the project limits.

FACILITY OWNER	NON- REIMBURSABLE	REIMBURSABLE
Windstream Comm.	\$ 50,000.00	
Dalton Utilities (Gas)	\$ 10,000.00	
Dalton Utilities (Water)	\$ 10,000.00	
Dalton Utilities (Sewer)	\$ 10,000.00	
Dalton Utilities (Electrical)	\$200,000.00	
Dalton Utilities (Telcom)	\$ 8,086.00	
Charter Communications	\$ 20,000.00	
Georgia Power – Dist.		\$ 74,000.00
North Georgia EMC		\$340,000.00
Totals	\$308,086.00	\$414,000.00

Total Updated Preliminary Utility Cost Estimate \$722,086.00.

If you have any questions, please contact Jennifer Deems at 770-387-3616.

KDB/jd

C: Jeff Baker, P. E., State Utilities Engineer (via e-mail)
File/Estimating Book

**GEORGIA DEPARTMENT OF TRANSPORTATION
PRELIMINARY ROW COST ESTIMATE SUMMARY**

Date: 9/9/2011 Project: Intersection Improvements
 Revised: County: Whitefield
 PI: 0007484

Description: Traffic operation improvements SR 2,3, 71,201
 Project Termini: Traffic operation improvements SR 2,3, 71,201

Existing ROW: Varies
 Required ROW: Varies

Parcels: 4

Land and Improvements \$8,953.50

Proximity Damage	\$0.00
Consequential Damage	\$0.00
Cost to Cures	\$0.00
Trade Fixtures	\$0.00
Improvements	\$4,000.00

Valuation Services \$8,000.00

Legal Services \$40,200.00

Relocation \$8,000.00

Demolition \$0.00

Administrative \$35,500.00

TOTAL ESTIMATED COSTS \$100,653.50

TOTAL ESTIMATED COSTS (ROUNDED) \$101,000.00

Preparation Credits	Hours	Signature

Prepared By: Lashane Alexander CG#: 286999 (DATE) 9/9/11
 Approved By: Dalme Alexander CG#: 286999 (DATE) 9/9/11

NOTE: No Market Appreciation is included in this Preliminary Cost Estimate

Georgia Department of Transportation
Preliminary ROW Cost Estimate Worksheet

Project/County/PI

Intersection Improvements Whitefield

0007484

	A	B	C	D
Land and Improvements	Agriculture	Residential	Commercial	Industrial
1 Estimate Low (ac)	\$0.00	\$0.00	\$80,000.00	\$0.00
2 Estimate High (ac)	\$0.00	\$0.00	\$150,000.00	\$0.00
3 Estimate Used (ac)	\$0.00	\$0.00	\$110,000.00	\$0.00
4 Fee Simple Area (ac)	0.00	0.00	0.02	0.00
5 Fee Simple Estimate	\$0.00	\$0.00	\$1,969.00	\$0.00
6 Perm Esmt Area (ac)	0.00	0.00	0.00	0.00
7 Perm Esmt Factor	0%	0%	0%	0%
8 Perm Esmt Estimate	\$0.00	\$0.00	\$0.00	\$0.00
9 Temp Esmt Area (ac)	0.00	0.00	0.00	0.00
10 Temp East Factor	0%	0%	0%	0%
11 Temp Esmt Estimate	\$0.00	\$0.00	\$0.00	\$0.00
12 Proximity Damages	\$0.00	\$0.00	\$0.00	\$0.00
13 Consequential Damages	\$0.00	\$0.00	\$0.00	\$0.00
14 Cost to Cures	\$0.00	\$0.00	\$0.00	\$0.00
15 Improvements	\$0.00	\$0.00	\$4,000.00	\$0.00
16 Trade Fixtures	\$0.00	\$0.00	\$0.00	\$0.00
17				
18 PROPERTY TYPE TOTALS	\$0.00	\$0.00	\$5,969.00	\$0.00
19	SUB TOTAL PROPERTY TYPES			\$5,969.00
20	Counter Offers and Condemnation Increases			\$2,984.50
21				
22	GRAND TOTAL LANDS AND IMPROVEMENTS			\$8,953.50

Georgia Department of Transportation
Preliminary ROW Cost Estimate Worksheet

Project/County/PI

Intersection Improvements Whitefield

0007484

	A	B	C	D
Valuation Services	Agriculture	Residential	Commercial	Industrial
1 Appraisals (# of Parcels)	0	0	4	0
2 Estimated Fees (per Parcel)	\$0.00	\$0.00	\$2,000.00	\$0.00
3 TOTAL APPRAISALS	\$0.00	\$0.00	\$8,000.00	\$0.00
4 Sign Estimates	0	0	0	0
5 Estimated Fees	\$0.00	\$0.00	\$0.00	\$0.00
6 TOTAL SIGN ESTIMATES	\$0.00	\$0.00	\$0.00	\$0.00
7 Specialty Reports	0	0	0	0
8 Estimated Fees	\$0.00	\$0.00	\$0.00	\$0.00
9 TOTAL SPECIALTY REPORTS	\$0.00	\$0.00	\$0.00	\$0.00
10 Septic/Well Reports	0	0	0	0
11 Estimated Fees	\$0.00	\$0.00	\$0.00	\$0.00
12 TOTAL SEPTIC/WELL REPORTS	\$0.00	\$0.00	\$0.00	\$0.00
13				
14				
15				
16 TOTAL VALUATION FEES	\$0.00	\$0.00	\$8,000.00	\$0.00
17	SUB TOTAL VALUATION SERVICES			\$8,000.00
18	Updates and Incidentals (Min \$2,500 or 25%)			\$2,500.00
19	GRAND TOTAL VALUATION SERVICES			\$8,000.00

Georgia Department of Transportation
Preliminary ROW Cost Estimate Worksheet

Project/County/PI

Intersection Improvements Whitefield

0007484

	A	B	C	D
	Parcels	Estimated Fees		TOTALS
1	Meeting with Attorney	4	\$125.00	\$500.00
2	Preliminary Titles	4	\$200.00	\$800.00
3	Closing and Final Title	4	\$300.00	\$1,200.00
4	Recording Fees	4	\$50.00	\$200.00
5	Condemnation Filing	1	\$5,000.00	\$5,000.00
6	Litigation Costs	1	\$25,000.00	\$25,000.00
7	Updates and Incidentals	1	\$7,500.00	\$7,500.00
8				
9				
10				
11				
12				
13				
14				
15				
16				
17	GRAND TOTAL LEGAL SERVICES			\$40,200.00

Georgia Department of Transportation
Preliminary ROW Cost Estimate Worksheet

Project/County/PI

Intersection Improvements Whitefield

0007484

	A	B	C	D
	Relocation	Displacements	Estimated Costs	TOTALS
1	Business Displacement		\$15,000.00	\$0.00
2	Residential Tenant		\$20,000.00	\$0.00
3	Residential Owner		\$40,000.00	\$0.00
4	Pro-Rata Taxes	4	\$1,000.00	\$4,000.00
5	Property Pin Replacement	4	\$1,000.00	\$4,000.00
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17	GRAND TOTAL RELOCATION			\$8,000.00

Georgia Department of Transportation
Preliminary ROW Cost Estimate Worksheet

Project/County/PI

Intersection Improvements Whitefield

0007484

	A	B	C	D
	Demolition	Items/Improvements	Estimated Costs	TOTALS
1	Residential Structures		\$15,000.00	\$0.00
2	Commercial Structures		\$25,000.00	\$0.00
3	Hotels/Apartments		\$60,000.00	\$0.00
4	UST's - Dispensers		\$50,000.00	\$0.00
5	Billboards		\$8,000.00	\$0.00
6	Signs - Light Standards		\$1,500.00	\$0.00
7	Water Vaults		\$15,000.00	\$0.00
8	Gas/Water Service Separation		\$2,500.00	\$0.00
9				
10				
11				
12				
13				
14				
15				
16				
17	GRAND TOTAL DEMOLITION			\$0.00

Georgia Department of Transportation
Preliminary ROW Cost Estimate Worksheet

Project/County/PI

Intersection Improvements Whitefield

0007484

	A	B	C	D
	Parcels	Man hours per Parcel		TOTALS
1	4	40		\$8,000.00
2	4	100		\$20,000.00
3		50		\$0.00
4	1	50		\$2,500.00
5	1	100		\$5,000.00
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17	GRAND TOTAL INHOUSE			\$35,500.00