

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

District 7

REVISED PROJECT CONCEPT REPORT

Project Number: CSSTP-0006-00(899)

County: DeKalb

P. I. Number: 0006899

Federal Route Number: N/A

State Route Number: N/A

DeKalb Trails – Rockbridge Road to Poole Street—Phase 1

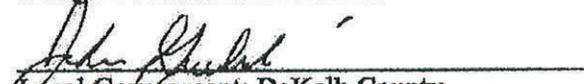
The project end termini is proposed to be revised. A proposed adjacent project (Project No.: STP-0009-00(167), PI No.: 0009167) will include pedestrian and streetscape improvements to the areas between Poole Street and East/West Mountain Street. The proposed improvements in the Approved Project Concept Report for CSSTP-0006-00(899) between Poole Street and East/West Mountain Road are no longer necessary.

Submitted for approval:

DATE 5/17/10


Design Consultant: ARCADIS

DATE 5/19/10


Local Government: DeKalb County

DATE _____

Design Phase Office Head

DATE 7/5/10

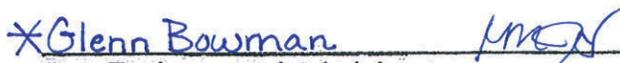

Office Head (Project Manager's Office)

DATE 7/5/10


Project Manager

Recommended for approval:

DATE 7/11/2010


State Environmental Administrator

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

DATE 7/12/2010


State Transportation Planning Administrator

* Recommendation on file

REVISED PROJECT CONCEPT REPORT

Need and Purpose:

The DeKalb County Public Works Department of Transportation Division leads two programs to develop a network of inter-linking bicycle and pedestrian ways throughout the County. One of which is an initiative to construct bicycle lanes and sidewalks along Stone Mountain Lithonia Road. This project is part of a 3-phase master project that will link the City of Lithonia with downtown Stone Mountain and provide alternative transportation modes as well as a recreational link between these two cities. This project will connect to a future county bike project on Rockbridge Road and will provide access to Stone Mountain Park. Both the bicycle lanes and sidewalk plans are referenced in the DeKalb County Comprehensive Transportation Plan.

Project Location: The proposed length of the revised project will be 1.4 miles with the project beginning at the intersection of Rockbridge Road and continuing north along Stone Mountain Lithonia Road to the intersection of Main Street and Poole Street. The project is located within DeKalb County and crosses into the city limits of Stone Mountain, Georgia near the intersection of Main Street and Lucile Street.

Description of the approved concept: The phase-1 project area is located in DeKalb County on Stone Mountain Lithonia Road between Rockbridge Road and East/West Mountain Street in Stone Mountain, Georgia. The project is approximately 1.6 miles long.

The project consists of adding bike lanes in both directions along South Stone Mountain Lithonia Road and 5-foot sidewalk along the eastern side. Curb and gutter is proposed for the eastern side and a rural section is proposed for the western side of South Stone Mountain Lithonia Road. Roadway widening will be symmetrical about existing centerline. This could vary as factors such as utility impacts, right-of-way restrictions, and other geometric restrictions dictate.

It is not the intent of this improvement project to relocate utility facilities not impacted by the proposed improvements because the existing right of way is insufficient.

PDP Classification: Major _____ Minor X

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

Functional Classification: Urban Local Street

U. S. Route Number(s): N/A **State Route Number(s):** N/A

Traffic (AADT) as shown in approved concept:
 N/A

Updated traffic data (AADT):

Base Year: N/A Design Year: N/A

- Proposed project improvements are pedestrian improvements, no traffic capacity improvements are proposed as a part of this project

Approved Programmed/Schedule

P.E.: 2010 R/W: 2011 Construction: 2012

VE Study Required Yes () No (X)

Benefit/Cost Ration N/A

Is the project located in an Ozone Non-attainment area? Yes (X) No ()

Is the project in a PM2.5 Non-attainment area? X Yes No.

The project concept is consistent with the model which proposes bike lanes and sidewalks along South Stone Mountain Lithonia Road.

<p>Approved Features:</p> <ul style="list-style-type: none"> • Project termini <ul style="list-style-type: none"> ○ The project termini of the approved concept report are listed as Rockbridge Road at the southern end of the project and East/West Mountain Street at the northern end of the project 	<p>Proposed Features:</p> <ul style="list-style-type: none"> • Project termini <ul style="list-style-type: none"> ○ The project termini for the revised concept will be Rockbridge Road at the southern end of the project and Poole Street at the northern end of the project.
<p>Reason for Change:</p> <ul style="list-style-type: none"> • A proposed adjacent project (Project No.: STP-0009-00(167), PI No.: 0009167) will include pedestrian and streetscape improvements to the areas between Poole Street and East/West Mountain Street. The proposed improvements in the Approved Project Concept Report for CSSTP-0006-00(899) between Poole Street and East/West Mountain Road are no longer necessary. 	

Potential Environmental Impacts of Proposed Revision:

No additional environmental impacts are expected by the proposed concept revision. Project length and footprint is being reduced.

Have Proposed Revisions Been Reviewed by Environmental Staff? (X) Yes () No

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Project Number: CSSTP-0006-00(899)
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County: DeKalb

Environmental Responsibilities (Studies/Documents/Permits): Consultant

Updated Cost Estimate	
Base Construction Cost	\$2,456,099
Engineering and Inspection	\$140,964
Fuel & Asphalt Adjustment	\$363,171
<u>Total Construction Cost</u>	\$2,960,234
Right-of-Way	\$339,728
Utilities (reimbursable)	\$287,646
Utility Contingencies	\$0
Environmental Mitigation	\$0

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Project Number: CSSTP-0006-00(899)
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Recommendation: Recommend that the proposed revision to the concept be approved for implementation.

Attachments:

1. Project Location Sketch
2. Cost Estimates
3. Fuel & Asphalt Adjustment Summary
4. Typical sections
5. Project STP-0009-00(167), LCI Streetscape Phase 2 Meeting Minutes

Concur: _____


Director of Engineering

Approve: _____

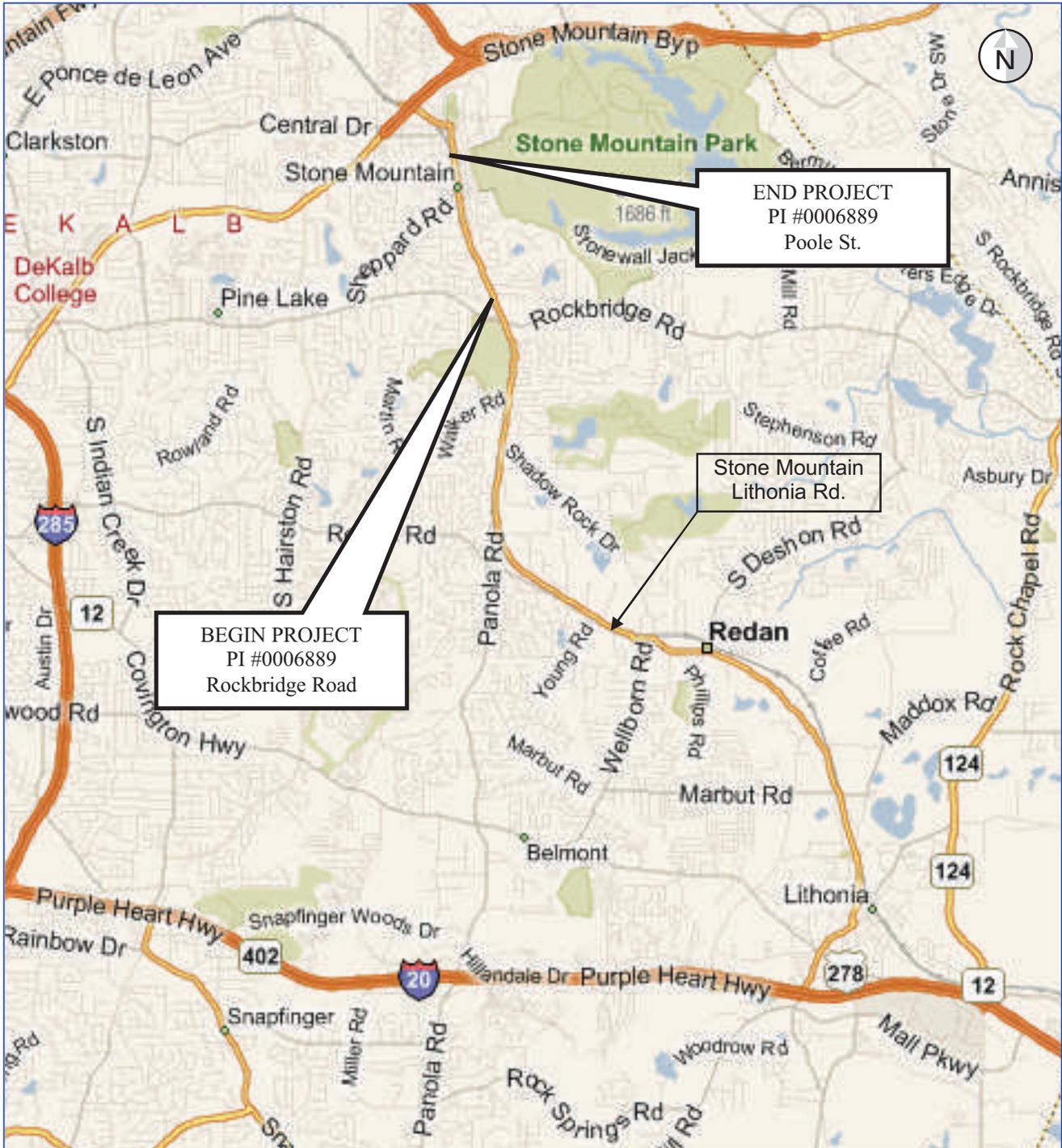


Chief Engineer

Date: _____

8/21/10

Project Location Sketch



PRELIMINARY COST ESTIMATE

PROJECT: PROJECT: DeKalb Trails - Lithonia to Stone Mountain **COUNTY:** DeKalb
 PI 0006899
 Stone Mountain Lithonia Rd: Rockbridge Rd. to Mountain St.

DATE: May 13, 2010

PREPARED BY: ARCADIS

PROJECT LENGTH: 1.4 mi mainline, 0.07 mi side road

ESTIMATED LETTING DATE:

PROGRAMMING PROCESS CONCEPT DEVELOPMENT DURING PROJECT

PROJECT COST	
A. RIGHT-OF-WAY:	
1. PROPERTY (LAND & EASEMENT)	\$268,560
2. DISPLACEMENTS; RES: 0 @ \$150,000/ea, BUS: 0, M.H.: 0	\$0
3. OTHER COST (DAMAGES, ADM. / COURT, INFL., ETC.)	\$71,168
SUBTOTAL: A	\$339,728
B. REIMBURSABLE UTILITIES:	
1. TRANSMISSION LINES	\$0
2. DISTRIBUTION LINES (\$50,000 / mile - one side of road)	\$81,496
3. OTHER UTILITIES (36 minor structures @ \$5,000 / structure)	\$180,000
4. SERVICES	\$26,150
SUBTOTAL: B	\$287,646
C. CONSTRUCTION	
1. ROADWAY ITEMS:	\$2,637,177.90
2. EROSION CONTROL ITEMS:	\$162,174.94
3. SIGNING AND MARKING ITEMS:	\$19,917.74
SUBTOTAL: C	\$2,819,271

ESTIMATE SUMMARY		
A. RIGHT-OF-WAY:		\$339,728
B. REIMBURSABLE UTILITIES:		\$287,646
C. CONSTRUCTION:		\$2,819,271
1. ROADWAY ITEMS	\$2,637,178	
2. EROSION CONTROL ITEMS	\$162,175	
3. SIGNING AND MARKING ITEMS	\$19,918	
SUBTOTAL CONSTRUCTION COST	\$2,819,271	
E. & I. (5%)	\$140,964	
TOTAL CONSTRUCTION COST	\$2,960,234	
TOTAL PROJECT COST		\$3,587,608

Estimate Report for file "0006899"

Section Roadway Items

Item Number	Quantity	Units	Unit Price	Item Description	Cost
000-0000	1	Lump Sum	279275.0	PRICE ADJUSTMENT FOR ASPHALT	279275.0
000-0000	1	Lump Sum	9501.11	PRICE ADJUSTMENT FOR BITUMINOUS TACK COAT	9501.11
000-0000	1	Lump Sum	74395.43	ASPHALT FUEL PRICE ADJUSTMENT	74395.43
150-1000	1	LS	250000.0	TRAFFIC CONTROL - CSSTP-0006-00(899)	250000.0
210-0100	1	LS	750000.0	GRADING COMPLETE - CSSTP-0006-00(899)	750000.0
310-5100	6690	SY	13.39	GR AGGR BASE CRS, 10 INCH, INCL MATL	89579.1
402-1812	1200	TN	59.21	RECYCLED ASPH CONC LEVELING, INCL BITUM MATL & H LIME	71052.0
402-3121	1470	TN	54.01	RECYCLED ASPH CONC 25 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME	79394.7
402-3130	2740	TN	59.87	RECYCLED ASPH CONC 12.5 MM SUPERPAVE, GP 2 ONLY, INCL BITUM MATL & H LIME	164043.8
402-3190	735	TN	58.0	RECYCLED ASPH CONC 19 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME	42630.0
413-1000	2600	GL	1.73	BITUM TACK COAT	4498.0
432-0206	26900	SY	1.25	MILL ASPH CONC PVMT, 1 1/2 IN DEPTH	33625.0
437-1571	4435	LF	30.06	STRAIGHT GRANITE CURB, 5 IN X 17 IN, TP A	133316.1
437-2571	250	LF	36.2	CIRCULAR GRANITE CURB, 5 IN X 17 IN, TP A	9050.0
441-0016	1200	SY	36.25	DRIVEWAY CONCRETE, 6 IN TK	43500.0
441-0104	4900	SY	23.64	CONC SIDEWALK, 4 IN	115836.0
441-6216	9155	LF	11.41	CONC CURB & GUTTER, 8 IN X 24 IN, TP 2	104458.55
446-1100	14000	LF	3.01	PVMT REINF FABRIC STRIPS, TP 2, 18 INCH WIDTH	42140.0
500-9999	85	CY	157.93	CLASS B CONC, BASE OR PVMT WIDENING	13424.05
550-1150	15	LF	21.47	STORM DRAIN PIPE, 15 IN, H 1-10	322.04
550-1180	5358	LF	29.13	STORM DRAIN PIPE, 18 IN, H 1-10	156078.54
550-1240	290	LF	35.46	STORM DRAIN PIPE, 24 IN, H 1-10	10283.4
550-1300	50	LF	41.61	STORM DRAIN PIPE, 30 IN, H 1-10	2080.5
550-4118	1	EA	441.16	FLARED END SECTION 18 IN, SIDE DRAIN	441.16
550-4130	1	EA	602.85	FLARED END SECTION 30 IN, SIDE DRAIN	602.85
611-3000	2	EA	1593.17	RECONSTR CATCH BASIN, GROUP 1	3186.34
611-3010	2	EA	1263.07	RECONSTR DROP INLET, GROUP 1	2526.14
641-1100	995	LF	43.4	GUARDRAIL, TP T	43183.0
641-5001	1	EA	632.59	GUARDRAIL ANCHORAGE, TP 1	632.59
641-5012	1	EA	2225.99	GUARDRAIL ANCHORAGE, TP 12	2225.99
668-1100	50	EA	2117.93	CATCH BASIN, GP 1	105896.49
Section Sub Total:					\$2,637,177.90

Section Erosion Control Items

Item Number	Quantity	Units	Unit Price	Item Description	Cost
163-0232	4	AC	291.16	TEMPORARY GRASSING	1164.64
163-0240	596	TN	141.98	MULCH	84620.07
163-0300	2	EA	932.66	CONSTRUCTION EXIT	1865.32
163-0550	68	EA	145.08	CONSTRUCT AND REMOVE INLET SEDIMENT TRAP	9865.44
165-0030	5837	LF	0.63	MAINTENANCE OF TEMPORARY SILT FENCE, TP C	3677.31
165-0101	2	EA	432.2	MAINTENANCE OF CONSTRUCTION EXIT	864.4
165-0105	68	EA	52.5	MAINTENANCE OF INLET SEDIMENT TRAP	3570.0
167-1000	2	EA	409.97	WATER QUALITY MONITORING AND SAMPLING	819.94
167-1500	18	MO	508.17	WATER QUALITY INSPECTIONS	9147.06
171-0030	11675	LF	2.65	TEMPORARY SILT FENCE, TYPE C	30938.75
700-6910	8	AC	667.95	PERMANENT GRASSING	5343.6
700-7000	16	TN	52.94	AGRICULTURAL LIME	847.04
700-7010	20	GL	15.9	LIQUID LIME	318.0
700-8000	8	TN	360.45	FERTILIZER MIXED GRADE	2883.6
700-8100	400	LB	2.22	FERTILIZER NITROGEN CONTENT	888.00
716-2000	5704	SY	0.94	EROSION CONTROL MATS, SLOPES	5361.75
Section Sub Total:					\$162,174.94

Section Signing and Marking Items

Item Number	Quantity	Units	Unit Price	Item Description	Cost
636-1020	85	SF	13.48	HIGHWAY SIGNS, TP 1 MATL, REFL SHEETING, TP 3	1145.8
636-2070	221	LF	6.93	GALV STEEL POSTS, TP 7	1531.53
652-0094	22	EA	43.48	PAVEMENT MARKING, SYMBOL, TP 4	956.56
652-0110	22	EA	40.44	PAVEMENT MARKING, ARROW, TP 1	889.68
652-5301	12750	LF	0.13	SOLID TRAF STRIPE, 6 IN, WHITE	1657.5
652-5451	12750	LF	0.15	SOLID TRAFFIC STRIPE, 5 IN, WHITE	1912.5
652-6301	537	GLF	0.1	SKIP TRAF STRIPE, 6 IN, WHITE	53.7
652-6501	537	GLF	0.09	SKIP TRAFFIC STRIPE, 5 IN, WHITE	48.33

653-0120	8	EA	68.7	THERMOPLASTIC PVMT MARKING, ARROW, TP 2	549.6
653-1502	12785	LF	0.33	THERMOPLASTIC SOLID TRAF STRIPE, 5 IN, YELLOW	4219.05
653-1704	300	LF	3.59	THERMOPLASTIC SOLID TRAF STRIPE, 24 IN, WHITE	1077.0
653-1804	2276	LF	1.69	THERMOPLASTIC SOLID TRAF STRIPE, 8 IN, WHITE	3846.44
653-3501	2600	GLF	0.22	THERMOPLASTIC SKIP TRAF STRIPE, 5 IN, WHITE	572.0
653-3502	2600	GLF	0.26	THERMOPLASTIC SKIP TRAF STRIPE, 5 IN, YELLOW	676.0
654-1001	190	EA	2.97	RAISED PVMT MARKERS TP 1	564.30
654 1003	65	EA	3.35	RAISED PVMT MARKERS TP 3	217.75
Section Sub Total:					\$19,917.74

Total Estimated Cost: \$2,819,270.58

Subtotal Construction Cost	\$2,819,270.58
E&I Rate 5.0 %	\$140,963.53
Inflation Rate 0.0 % @ 0 Years	\$0.00
Total Construction Cost	\$2,960,234.11
Right Of Way	339728.00
ReImb. Utilities	287646.00
Grand Total Project Cost	\$3,587,608.11

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 P.I. NO. 6899
 DATE 2/9/2010

INDEX (TYPE)	DATE	INDEX
REG. UNLEADED	Feb-09	\$ 2.538
DIESEL		\$ 2.772
LIQUID AC		\$ 709.00

Link to Fuel and AC Index:
<http://www.dot.ga.gov/doingbusiness/Materials/Pages/asphaltcementindex.aspx>

LIQUID AC ADJUSTMENTS

PA=[((APM-APL)/APL)-0.05]xTMTxAPL

Asphalt

Price Adjustment (PA)			\$ 279,275.10	\$	279,275.10
Monthly Asphalt Cement Price month placed (APM)	Max. Cap	125%	\$ 1,595.25		
Monthly Asphalt Cement Price month project let (APL)			\$ 709.00		
Total Monthly Tonnage of asphalt cement (TMT)			328.25		

ASPHALT	Tons	%AC	AC ton
Leveling	1200	5.0%	60
12.5 OGFC		5.0%	0
12.5 mm	3160	5.0%	158
9.5 mm SP		5.0%	0
25 mm SP	1470	5.0%	73.5
19 mm SP	735	5.0%	36.75
	6565		328.25

BITUMINOUS TACK COAT

Price Adjustment (PA)			\$ 9,501.11	\$	9,501.11
Monthly Asphalt Cement Price month placed (APM)	Max. Cap	125%	\$ 1,595.25		
Monthly Asphalt Cement Price month project let (APL)			\$ 709.00		
Total Monthly Tonnage of asphalt cement (TMT)			11.1672624		

Bitum Tack

Gals	gals/ton	tons
2600	232.8234	11.1672624

BITUMINOUS TACK COAT (Surface Treatment)

Price Adjustment (PA)			\$ -	\$	-
Monthly Asphalt Cement Price month placed (APM)	Max. Cap	125%	\$ 1,595.25		
Monthly Asphalt Cement Price month project let (APL)			\$ 709.00		
Total Monthly Tonnage of asphalt cement (TMT)			0		

Bitum Tack

	SY	Gals/SY	Gals	gals/ton	tons
Single Surf. Trmt.		0.20	0	232.8234	0
Double Surf. Trmt.		0.44	0	232.8234	0
Triple Surf. Trmt		0.71	0	232.8234	0
					0

TOTAL LIQUID AC ADJUSTMENT \$ **288,776.21**

FUEL ADJUSTMENTS - ROADWAY

FPA = (((FPM FPL)/FPL) .10)xQxF

GRADED AGGREGATE BASE

			REGULAR UNLEADED	DIESEL	TOTALS
Fuel Price Adjustment (FPA)			\$ -	\$ -	\$ -
Monthly Fuel Price for month work was accomplished (FPM)	Max. Cap	125%	\$ 5.711	\$ 6.237	
Monthly Fuel Price for month when project was let (FPL)			\$ 2.538	\$ 2.772	
Quantity Placed (Q)					
Fuel Usage Factor (F)			0.24	0.29	

ASPHALT

			REGULAR UNLEADED	DIESEL	TOTALS
Fuel Price Adjustment (FPA)			\$ 13,604.50	#####	\$ 74,295.43
Monthly Fuel Price for month work was accomplished (FPM)	Max. Cap	125%	\$ 5.711	\$ 6.237	

PROJ. NO. CSTP00-0006-00(899)
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Monthly Fuel Price for month when project was let (FPL) \$ 2.538 \$ 2.772
 Quantity Placed (Q) 6565
 Fuel Usage Factor (F) 0.71 2.90

EARTHWORK
 Fuel Price Adjustment (FPA) \$ - \$ - \$ -
 Monthly Fuel Price for month work was accomplished (FPM) Max. Cap 125% \$ 5.711 \$ 6.237
 Monthly Fuel Price for month when project was let (FPL) \$ 2.538 \$ 2.772
 Quantity Placed (Q) Cy
 Fuel Usage Factor (F) 0.15 0.29

TOTAL ROADWAY FUEL ADJUSTMENTS \$ **74,295.43**

FUEL ADJUSTMENTS - BRIDGE

$FPA = (((FPM-FPL)/FPL) \cdot 100) \cdot (Q \cdot F / 1000) + FPL$

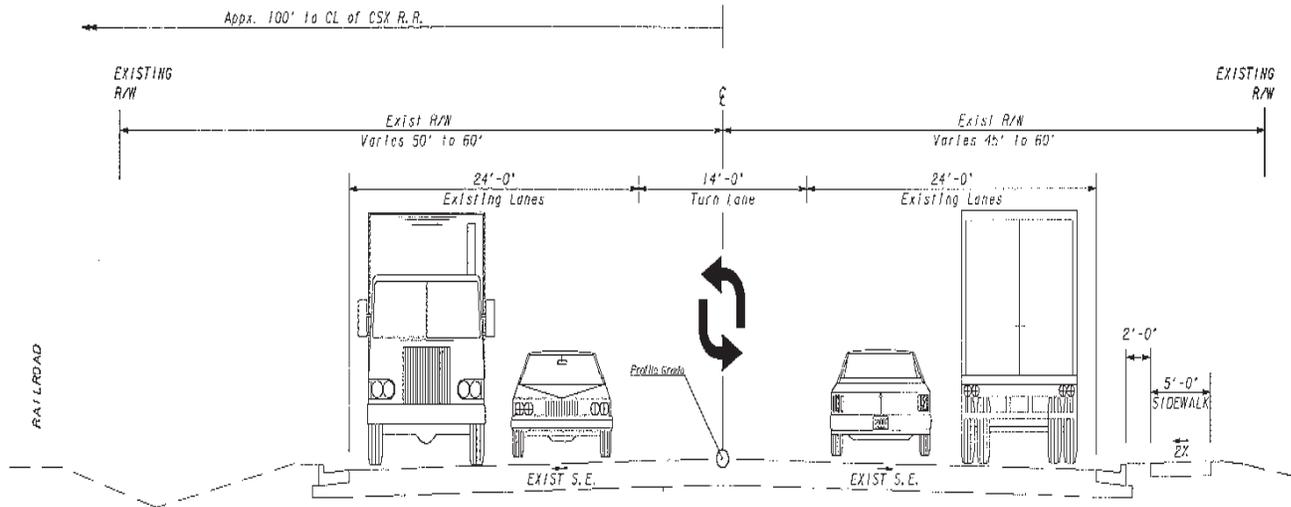
Fuel Price Adjustment (FPA) \$ - \$ - \$ -
 Monthly Fuel Price for month work was accomplished (FPM) 125% \$ 5.711 \$ 6.237
 Monthly Fuel Price for month when project was let (FPL) \$ 2.538 \$ 2.772
 Quantity Placed (Q) \$ -
 Fuel Usage Factor (F) 1.5 8

Section	Cost
211 Bridge Excavation	
500 Superstr Conc Cl AA	
500 Class A Concrete	
500 Class AA Concrete	
500 Concrete Handrail	
500 Concrete Barrier	
501 Structural Steel	
507 Prestressed Conc Beams	
511 Super Reinforcement	
511 Bar Reinf Steel	
520 Piling	
520 Piling	
524 Drilled Caisson	
547 Pile Encasement	
547 Pile Encasement	
	\$ -

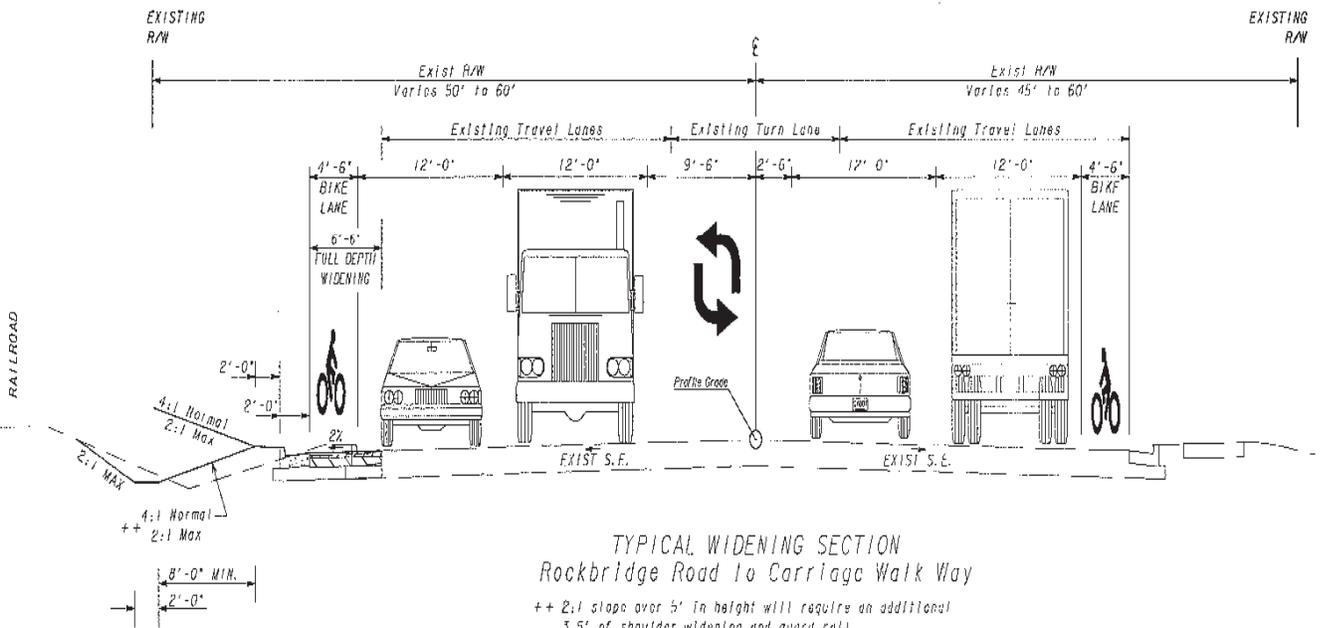
Assumes 80% of the estimated bridge cost will qualify for fuel adjustments
 EST. BRIDGE COST w/ADJ. COST \$ -
 % COST 80%

TOTAL BRIDGE FUEL ADJUSTMENTS \$ -

Typical Sections
Not to Scale



EXISTING ROADWAY SECTION
Rockbridge Road to Carriage Walk Way



TYPICAL WIDENING SECTION
Rockbridge Road to Carriage Walk Way
++ 2:1 slope over 5' in height will require an additional 3.5' of shoulder widening and guard rail



Project Details:	
Project No.: STP-0009-00(167)	PI No.: 0009167
Project Description: LCI Streetscapes Phase 2	
Meeting Details:	
Meeting Date: April 6 , 2010	Meeting Location: Stone Mountain City Hall
Meeting Attendees: Johnny Lee, David Pelton, Nikki Reutlinger, Matt McDow, Barry Amos, Jim Tavenner, Teresa Shell, David Hannon	
Summary Information:	
Author: Teresa A. Shell	Date Prepared: April 6, 2010
Copies Sent To: All present	

➤ **Deliverables Distributed:**

- None

➤ **Meeting Summary:**

- I. Introduction of team members for Dekalb County Trails Project (P.I.0006899), LCI Streetscapes Phase 2 (P.I.0009167), Dekalb County, and City of Stone Mountain.
- II. Project Coordination
 - A. Milling and Paving
 - Dekalb County Trails Project will end milling and paving at the south end of the intersection 2nd Street and Main Street.
 - Streetscapes 2 will begin milling and paving at the 2nd Street and Main Street intersection.
 - B. East bike lane will end at 2nd Street and tie into existing City Path.
 - C. West bike lane will end at the south corner of Poole Street and tie into existing crosswalk.
- III. Design
 - A. Drainage concerns were raised by Mr. Amos (City) and addressed by the Dekalb County Trails Design Team.
 - B. Flooding issues were discussed and will be reviewed by the Dekalb County Trails Design Team to ensure no additional water is directed to 2nd Street.
 - C. Historic granite curb was noted to be saved where possible.



➤ **Action Items:**

- I. LAI
 - A. Complete meeting minutes and forward to Matt McDow for review and additions.
- II. Arcadis
 - A. Review LAI meeting minutes, complete minutes and send to all parties present.
 - B. Adjust plans to meet design decisions.
- III. City of Stone Mountain
 - A. Send review notes of Dekalb County Trails project to the Dekalb County Trails Design Team.

➤ **Additional Updates**

- None