

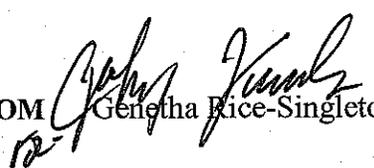
**DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA**

**INTERDEPARTMENT CORRESPONDENCE**

**FILE** P. I. No. 0007061, Fulton County  
STP00-0007-00(061)  
SR 120 at SR 141  
Intersection Improvement

**OFFICE** Program Control

**DATE** October 26, 2009

**FROM**  Genetha Rice-Singleton, Program Control Administrator

**TO** SEE DISTRIBUTION

**SUBJECT** APPROVED REVISED PROJECT CONCEPT REPORT

Attached for your files is the approval for subject project.

Attachment

DISTRIBUTION:

Ron Wishon  
Glenn Bowman  
Ken Thompson  
Michael Henry  
Keith Golden  
Bryant Poole  
Paul Liles  
Mike Lobdell  
Joshua Higgins  
BOARD MEMBER

## Revised Project Concept Report Transmittal Letter

### DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA

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#### INTERDEPARTMENTAL CORRESPONDENCE

FILE: STP-0007-00(061) Fulton County OFFICE: District 7  
P.I. No. 0007061 DATE: September 9, 2009

FROM: <sup>RSB</sup> Rachel Brown, District Engineer (Acting)

TO: Genetha Rice-Singleton, Assist. Director of Preconstruction

SUBJECT: *Revised Project Concept Report*

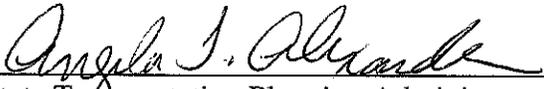
Attached is the original copy of the Revised Concept Report for your further handling for approval in accordance with the Plan Development Process (PDP).

After preliminary field plan review, the limits of the project have been revised.

The revised 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).

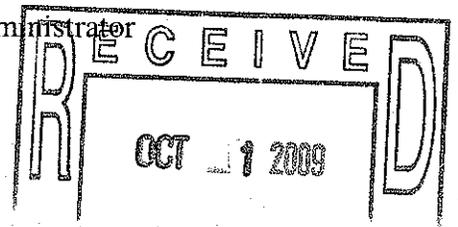
DATE

9/29/09

  
State Transportation Planning Administrator

#### Distribution:

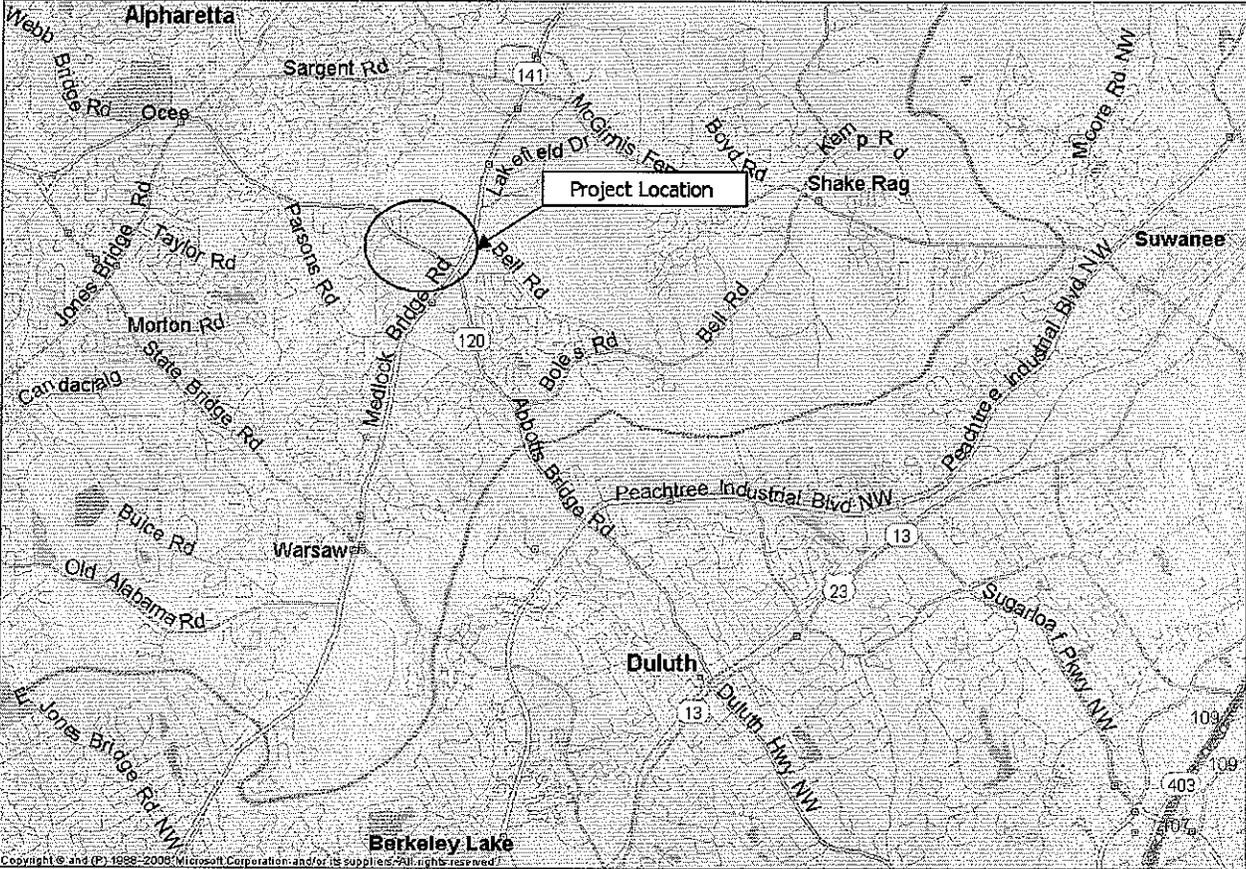
Ron Wishon - State Project Review Engineer  
Glenn Bowman - State Environmental/Location Engineer  
Keith Golden - State Traffic Safety and Design Engineer  
Angela T. Alexander - State Transportation Planning Administrator  
Angela Whitworth - State Transportation Financial Management Administrator



Project Concept Report

STP-0007-00(061)

Project Location Sketch



## REVISED PROJECT CONCEPT REPORT

**Need and Purpose:** The purpose of this project is to provide operational improvements to the intersection of SR 120 (Abbotts Bridge Road) and SR141 (Medlock Bridge Road). Both roads are urban minor arterials, but SR 141 carries almost three times the volume that SR 120 carries. Operational deficiencies occur particularly in the AM peak hour when the majority of the movements are turns from SR 120 onto SR 141. Currently on both SR 120 approaches there is one through lane, one left turn lane and one right turn lane. Constructing an additional left turn lane on the approaches of eastbound SR 120 at SR 141 and southbound SR 141 at SR 120 will promote a better flow of traffic along both roads at this intersection and reduce idle time. The additional left turn lane will also prevent turning vehicles from blocking the through lanes. There are also two existing receiving lanes on SR 141 and SR 120 for the dual left turns.

**Project Location:** This project is located entirely in the City of Duluth in Fulton County. This project is located in Land District 1, Land Lot 359, in Georgia Military District 1. The project location is approximately 8.3 miles north of SR 403 (I-85) and 5.8 miles east of SR 400.

**Description of the approved project:** The project proposes to widen SR 120 (Abbotts Bridge Road) a total of 12 feet on both approaches to SR 141 (Medlock Bridge Road) to accommodate additional left turn lanes. The project will extend approximately 500 feet on each side of the SR 141 (Medlock Bridge road) intersection. The project limits are from MP 15.635 to MP 15.825 for a project length of 0.189 miles (1,000 feet). The project satisfies the need and purpose by providing increased operational efficiency through additional turn lanes, improving signal phasing, and upgrading pedestrian facilities.

The posted speed limit along SR 120/Abbotts Bridge Road is 45 mph and 55 mph for SR 141/Medlock Bridge Road respectively.

**PDP Classification:** Major  Minor

**Federal Oversight:** Full Oversight (  ), Exempt(X), SF (  ), or Other (  )

**Functional Classification:** Urban Minor Arterial

**US Route Number(s):** N/A

**State Route Number(s):** SR 120 (Abbotts Bridge Road) and SR 141 (Medlock Bridge Road)

**Traffic (ADT) as shown in the approved concept:**

Current Year (2004): 19,075      Design Year (2024): 34452

**Proposed Features to be revised:**

The proposed features will be revised as describe above. All other design features will remain as proposed in the Approved Concept Report except as described below:

- Proposed Typical Section  
SR 120 (Abbotts Bridge Road) typical section has changed and will starts at STA. 7+00 and ends at 15+50  
SR 141(Medlock Bridge Road) typical section has changed and will starts at STA. 37 + 94 and ends at STA. 43+00
- No changes are planned concerning the proposed alignment.
- No changes are planned for access control.
- No changes are planned for controlling criteria.

**Revised Features to be approved:** The footprint of this project has been modified. The project design changes are as follows: The project proposes to widen SR 120 (Abbotts Bridge Road) a total of 12 feet on the west approach to SR 141 (Medlock Bridge Road) for a distance of approximately 850 feet. This will accommodate two left turning lanes onto Medlock Bridge Road. State Route 141 will also be widened a total of 21 feet on the north side of the intersection for a distance of approximately 600 feet. This will accommodate an additional left turn lane from Medlock Bridge Road onto Abbotts Bridge Road. The project will include signal phasing and upgrading pedestrian facilities. The revised limit of construction on SR 120 (Abbotts Bridge Road) begins at MP. 15.578 and ends at MP. 15.795, a decrease by approximately 0.03 mile (160 feet). The revised limit of the project on SR 141 (Medlock Bridge Road) starts at MP.19.46 and ends at MP. 19.60.

**Updated traffic data (ADT):**

Current Year (2012): 25,525      Design Year: (2032): 33,475

**Programmed Schedule:**

P.E.: 2009      R/W: 2010      Construction: 2011

**VE Study Required**      Yes ( )      No (X)

**Revised cost estimate:**

Construction (Infl., E & C)	\$687,475.11	Lump	L240
Right-of-Way	\$750,000.00	Local	
Utilities	\$20,000.00	Local	

**Is project located in a Non-attainment area?** Yes (x) No ( )

This project is air quality exempt because it does not increase capacity.

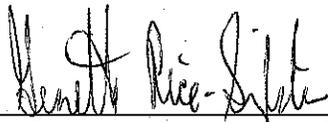
**Recommendation:** It is recommended that these changes to project termini and corresponding limits of construction be approved for implementation.

Attachments:

1. Sketch Map
2. Cost Estimate
3. Typical Sections
4. Accident Summary

I recommend this revised project concept be approved.

CONCUR

  
Program Control Administrator

APPROVED



Gerald M. Ross, P.E., Chief Engineer

# Summary of Costs

Project P.I. No.0007061

<b>Subtotal Construction Cost</b>	<b>\$582,952.26</b>
• Engineering & Inspection 5%	\$29,147.61
• Construction Contingency 3%	\$30,604.99
• Total Fuel Adjustment	\$15,284.37
• Total Liquid AC Adjustment	<u>\$29,486.68</u>
<b>Total Construction Cost</b>	<b>\$687,475.91</b>
• Right-of-Way	\$750,000.00
• Reimbursable Utilities	<u>\$20,000.00</u>
<b>Total Project Cost</b>	<b>\$1,457,475.91</b>

## Estimate Report for file "CSSTP-0007-00(061) ABBOTTS BRIDGE ROAD12009415212"

<b>Section PERMANENT EROSION CONTROL</b>					
Item Number	Quantity	Units	Unit Price	Item Description	Cost
700-6910	1	AC	960.36	PERMANENT GRASSING	960.36
700-7000	1	TN	51.73	AGRICULTURAL LIME	51.73
700-7010	1	GL	22.13	LIQUID LIME	22.13
700-8000	1	TN	292.10	FERTILIZER MIXED GRADE	292.10
700-8100	20	LB	2.36	FERTILIZER NITROGEN CONTENT	47.20
<b>Section Sub Total:</b>					<b>\$1,373.52</b>

<b>Section TRAFFIC SIGNS AND STRIPING</b>					
Item Number	Quantity	Units	Unit Price	Item Description	Cost
636-1033	222	SF	19.44	HIGHWAY SIGNS, TP 1 MATL, REFL SHEETING, TP 9	4315.68
636-2070	255	LF	9.19	GALV STEEL POSTS, TP 7	2343.45
652-6501	635	GLF	0.10	SKIP TRAFFIC STRIPE, 5 IN, WHITE	63.50
653-0110	4	EA	60.16	THERMOPLASTIC PVMT MARKING, ARROW, TP 1	240.64
653-0120	17	EA	66.25	THERMOPLASTIC PVMT MARKING, ARROW, TP 2	1126.25
653-0130	2	EA	81.25	THERMOPLASTIC PVMT MARKING, ARROW, TP 3	162.50
653-1501	3875	LF	0.38	THERMOPLASTIC SOLID TRAF STRIPE, 5 IN, WHITE	1472.50
653-1502	1040	LF	0.42	THERMOPLASTIC SOLID TRAF STRIPE, 5 IN, YELLOW	436.80
653-1704	220	LF	3.74	THERMOPLASTIC SOLID TRAF STRIPE, 24 IN, WHITE	822.80
653-1804	1820	LF	2.14	THERMOPLASTIC SOLID TRAF STRIPE, 8 IN, WHITE	3894.80
653-3501	1680	GLF	0.25	THERMOPLASTIC SKIP TRAF STRIPE, 5 IN, WHITE	420.00
653-3502	960	GLF	0.20	THERMOPLASTIC SKIP TRAF STRIPE, 5 IN, YELLOW	192.00
653-6004	186	SY	3.29	THERMOPLASTIC TRAF STRIPING, WHITE	611.94
653-6006	1046	SY	3.09	THERMOPLASTIC TRAF STRIPING, YELLOW	3232.14
654-1001	8	EA	3.33	RAISED PVMT MARKERS TP 1	26.64
654-1003	73	EA	4.00	RAISED PVMT MARKERS TP 3	292.00
656-0005	0	LF	1.58	REMOVE EXIST SOLID TRAF STRIPE, 5 IN, PAINT	0.00
656-0050	0	LF	2.01	REMOVE EXIST SOLID TRAF STRIPE, 5 IN, THERMOPLASTIC	0.00
656-0240	0	LF	5.00	REMOVE EXIST SOLID TRAF STRIPE, 24 IN, THERMOPLASTIC	0.00
656-1050	0	GLF	1.52	REMOVE EXIST SKIP TRAF STRIPE, 5 IN, THERMOPLASTIC	0.00
656-2050	0	LM	2650.00	REMOVE EXIST SOLID TRAF STRIPE, 5 IN, THERMOPLASTIC	0.00
656-3050	0	GLM	1750.00	REMOVE EXIST SKIP TRAF STRIPE, 5 IN, THERMOPLASTIC	0.00
656-5000	0	EA	198.19	REMOVE EXIST TRAF MARKINGS -	0.00
<b>Section Sub Total:</b>					<b>\$19,653.64</b>

<b>Section TEMPORARY EROSION CONTROL</b>					
Item Number	Quantity	Units	Unit Price	Item Description	Cost
163-0522	10	EA	88.08	CONSTRUCT AND REMOVE TEMPORARY DITCH CHECKS - TYPE A SILT FENCE	880.80
163-0550	7	EA	202.98	CONSTRUCT AND REMOVE INLET SEDIMENT TRAP	1420.86
165-0010	700	LF	0.70	MAINTENANCE OF TEMPORARY SILT FENCE, TP A	490.00
165-0105	7	EA	86.90	MAINTENANCE OF INLET SEDIMENT TRAP	608.30
167-1000	2	EA	1035.68	WATER QUALITY MONITORING AND SAMPLING	2071.36
167-1500	6	MO	993.55	WATER QUALITY INSPECTIONS	5961.30

171-0010	2105	LF	1.58	TEMPORARY SILT FENCE, TYPE A	3325.90
716-2000	925	SY	0.99	EROSION CONTROL MATS, SLOPES	915.75
<b>Section Sub Total:</b>					<b>\$15,674.27</b>

**Section TRAFFIC SIGNAL**

Item Number	Quantity	Units	Unit Price	Item Description	Cost
647-1000	1	LS	70000.00	TRAFFIC SIGNAL INSTALLATION NO -	70000.00
<b>Section Sub Total:</b>					<b>\$70,000.00</b>

**Section ROADWAY**

Item Number	Quantity	Units	Unit Price	Item Description	Cost
150-1000	1	LS	90000.00	TRAFFIC CONTROL -	90000.00
210-0100	1	LS	95000.00	GRADING COMPLETE -	95000.00
310-1101	1900	TN	17.93	GR AGGR BASE CRS, INCL MATL	34067.00
402-3113	660	TN	80.50	RECYCLED ASPH CONC 12.5 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME	53130.00
402-3121	335	TN	59.60	RECYCLED ASPH CONC 25 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME	19966.00
402-3190	225	TN	64.17	RECYCLED ASPH CONC 19 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME	14438.25
413-1000	355	GL	1.56	BITUM TACK COAT	553.80
432-5010	665	SY	1.10	MILL ASPH CONC PVMT, VARIABLE DEPTH	731.50
441-0104	1150	SY	37.81	CONC SIDEWALK, 4 IN	43481.50
441-4020	18	SY	39.67	CONC VALLEY GUTTER, 6 IN	714.06
441-4030	56	SY	44.86	CONC VALLEY GUTTER, 8 IN	2512.16
441-5002	195	LF	16.68	CONCRETE HEADER CURB, 6 IN, TP 2	3252.60
441-6022	2170	LF	28.05	CONC CURB & GUTTER, 6 IN X 30 IN, TP 2	60868.50
446-1100	2468	LF	2.25	PVMT REINF FABRIC STRIPS, TP 2, 18 INCH WIDTH	5553.00
550-1180	495	LF	36.80	STORM DRAIN PIPE, 18 IN, H 1-10	18216.00
550-1240	345	LF	43.76	STORM DRAIN PIPE, 24 IN, H 1-10	15097.20
550-4124	1	EA	900.00	FLARED END SECTION 24 IN, SIDE DRAIN	900.00
634-1200	9	EA	111.64	RIGHT OF WAY MARKERS	1004.76
668-1100	6	EA	2453.15	CATCH BASIN, GP 1	14718.90
668-2100	1	EA	2045.60	DROP INLET, GP 1	2045.60
<b>Section Sub Total:</b>					<b>\$476,250.83</b>

**Total Estimated Cost: \$582,952.26**

P.I. Number 7061

County Fulton

Date 10/13/2009

Project Number STP-0007-00(061)

**Special Provision, Section 109-Measurement and Payment  
FUEL PRICE ADJUSTMENT (ENGLISH 125% MAX)**

ENTER FPL DIESEL	2.517
ENTER FPM DIESEL	5.663

ENTER FPL UNLEADED	2.268
ENTER FPM UNLEADED	5.103

<http://www.dot.ga.gov/doingbusiness/Materials/Pages/asphaltcementindex.aspx>

<b>INCREASE ADJUSTMENT</b>
125.00%

<b>INCREASE ADJUSTMENT</b>
125.00%

ROADWAY ITEMS	QUANTITY	DIESEL FACTOR	GALLONS DIESEL	UNLEADED FACTOR	GALLONS UNLEADED	REMARKS
Excavations paid as specified by Sections 205 (CUBIC YARD)		0.29		0.15		
Excavations paid as specified by Sections 206 (CUBIC YARD)		0.29		0.15		
GAB paid as specified by the ton under Section 310 (TON)	1900.000	0.29	551.00	0.24	456.00	
Hot Mix Asphalt paid as specified by the ton under Sections 400 (TON)		2.90		0.71		
Hot Mix Asphalt paid as specified by the ton under Sections 402 (TON)	1220.000	2.90	3538.00	0.71	866.20	
PCC Pavement paid as specified by the square yard under Section 430 (SY)		0.25		0.20		

BRIDGE ITEMS	Quantity	Unit Price	QF/1000	Diesel Factor	Gallons Diesel	Unleaded Factor	Gallons Unleaded	REMARKS
Bridge Excavation (CY) Section 211				8.00		1.50		
Class __ Concrete (CY) Section 500				8.00		1.50		
Class __ Concrete (CY) Section 500				8.00		1.50		
Class __ Concrete (CY) Section 500				8.00		1.50		
Superstru Con Class __ (CY) Section 500				8.00		1.50		
Superstru Con Class __ (CY) Section 500				8.00		1.50		
Superstru Con Class __ (CY) Section 500				8.00		1.50		
Concrete Handrail (LF) Section 500				8.00		1.50		
Concrete Barrier (LF) Section 500				8.00		1.50		

BRIDGE ITEMS	Quantity	Unit Price	QF/1000	Diesel Factor	Gallons Diesel	Unleaded Factor	Gallons Unleaded	REMARKS
Stru Steel <u>Plan Quantity</u> (LB) Section 501				8.00		1.50		
Stru Steel <u>Plan Quantity</u> (LB) Section 501				8.00		1.50		
PSC Beams _____ (LF) Section 507				8.00		1.50		
PSC Beams _____ (LF) Section 507				8.00		1.50		
PSC Beams _____ (LF) Section 507				8.00		1.50		
Stru Reinf <u>Plan Quantity</u> (LB) Section 511				8.00		1.50		
Stru Reinf <u>Plan Quantity</u> (LB) Section 511				8.00		1.50		
Bar Reinf Steel (LB) Section 511				8.00		1.50		
Piling _____ inch (LF) Section 520				8.00		1.50		
Piling _____ inch (LF) Section 520				8.00		1.50		
Piling _____ inch (LF) Section 520				8.00		1.50		
Piling _____ inch (LF) Section 520				8.00		1.50		
Piling _____ inch (LF) Section 520				8.00		1.50		
Piling _____ inch (LF) Section 520				8.00		1.50		
Drilled Caisson, _____ (LF) Section 524				8.00		1.50		
Drilled Caisson, _____ (LF) Section 524				8.00		1.50		
Drilled Caisson, _____ (LF) Section 524				8.00		1.50		
Pile Encasement, _____ (LF) Section 547				8.00		1.50		
Pile Encasement, _____ (LF) Section 547				8.00		1.50		
<b>SUM QF DIESEL=</b>			<b>4089.00</b>	<b>SUM QF UNLEADED=</b>		<b>1322.20</b>		
<b>DIESEL PRICE ADJUSTMENT(\$)</b>					<b>\$11,835.81</b>			
<b>UNLEADED PRICE ADJUSTMENT(\$)</b>					<b>\$3,448.56</b>			



**ASPHALT CEMENT PRICE ADJUSTMENT FOR  
TACK COAT(Surface Treatment 125% MAX)**

**BITUMINOUS**

APPLICABLE TO CONTRACTS CONTAINING THE 413 SPEC. SECTION 413.5.01 ADJUSTMENTS ASPHALT PRICE ADJUSTMENT FOR BITUMINOUS TACK COAT

<http://www.dot.ga.gov/doingbusiness/Materials/Pages/asphaltcementindex.aspx>

ENTER APL

ENTER APM

Use this side for Asphalt Emulsion Only		
L.I.N.	TYPE	ASPHALT EMULSION (GALLONS)
TMT = <input type="text"/>		
REMARKS:		

Use this side for Asphalt Cement Only		
L.I.N.	TYPE	TACK (GALLONS)
TMT = <input type="text"/>		
REMARKS:		

**ADJUSTMENT SUMMARY**

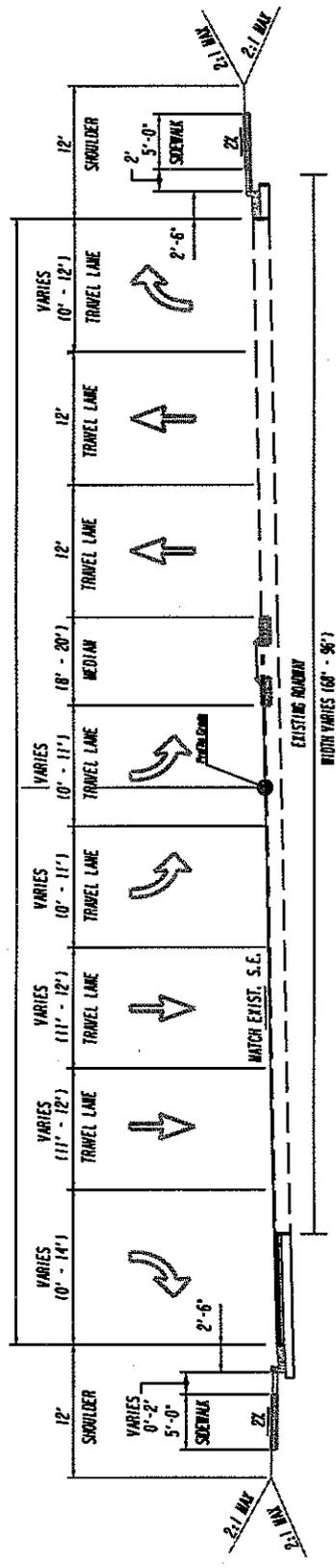
FUEL PRICE ADJUSTMENT (ENGLISH 125% MAX)	
DIESEL PRICE ADJUSTMENT(\$)	<u>\$11,835.81</u>
UNLEADED PRICE ADJUSTMENT(\$)	<u>\$3,448.56</u>
ASPHALT CEMENT PRICE ADJUSTMENT (BITUMINOUS TACK COAT 125% MAX)	<u>\$719.08</u>
400 / 402 ASPHALT CEMENT PRICE ADJUSTMENT 125% MAX	<u>\$28,767.60</u>
ASPHALT CEMENT PRICE ADJUSTMENT FOR BITUMINOUS TACK COAT(Surface Treatment 125% MAX)	

REMARKS:



DATE	BY	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
	GA			

**TYPICAL SECTION**  
**S. R. 141 MEDLOCK BRIDGE ROAD**



STATE OF GEORGIA DEPARTMENT OF TRANSPORTATION OFFICE	TYPICAL SECTIONS
REVISION DATES	

Project Concept Report

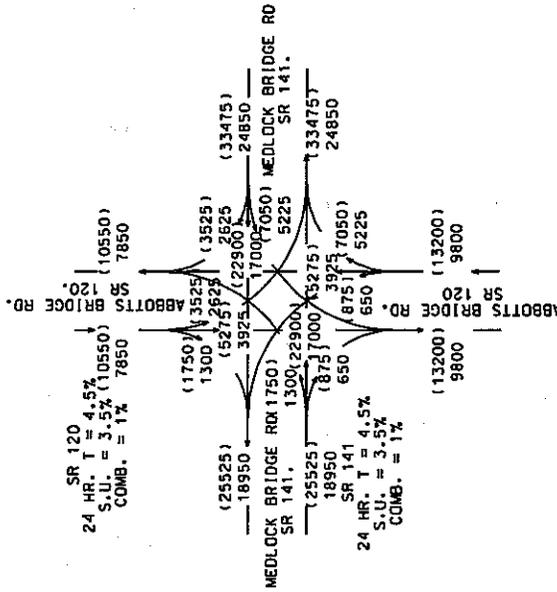
STP-0007-00(061)

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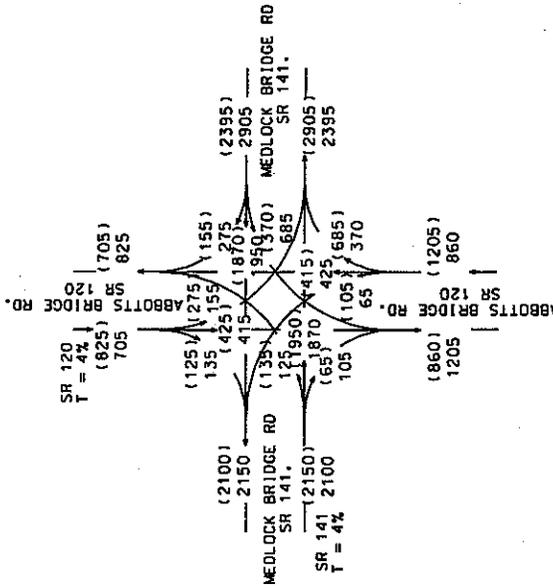
## Accident Summary

Year	Total Accidents	Sideswipes	Angle	Rear End	Injuries	Fatalities
2005	69	9	15	44	15	0
2006	104	7	30	65	17	0
2007	89	4	26	59	21	0
Statewide Average(2007)	161					

2032 ADT = (000)  
2012 ADT = 000



2032 PM DHV = (000)  
2032 AM DHV = 000



SSSTP-0007-001061  
P.L.# 0007061  
FULTON COUNTY  
SR141/MEDLOCK  
BRIDGE ROAD @  
SR 120/ABBOTTS  
BRIDGE ROAD