

ORIGINAL TO GENERAL FILES

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

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

FILE P.I. #0007406
CSSTP-0007-00(406)
GDOT District 5 - Jesup
Ware County
Traffic Signal Improvements

OFFICE Design Policy & Support

DATE September 9, 2011

FROM  for Brent Story, State Design Policy Engineer

TO SEE DISTRIBUTION

SUBJECT APPROVED LOCATION & DESIGN REPORT

Attached is the approved Location and Design Report with Notice of Location & Design Approval for the above subject project.

Attachment

DISTRIBUTION:

Genetha Rice-Singleton, Program Control Administrator
Ron Wishon, State Project Review Engineer
Phil Copeland, State Right-of-Way Administrator
Glenn Bowman, State Environmental Administrator
Bobby Hilliard, State Program Delivery Engineer
Kathy Zahul, State Traffic Engineer
Cindy VanDyke, State Transportation Planning Administrator
Ken Thompson, Location Bureau Chief
Angela Robinson, Financial Management Administrator
Jack "Greg" Walker, Area Engineer - D5, A2
Teresa Scott, District Planning & Programming Engineer
Brad Saxon, District Preconstruction Engineer
Karon Ivery, District Engineer
Derrick Cameron, Project Manager
BOARD MEMBER - 1st Congressional District

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

FILE CSSTP-0007-00(406), Ware County **OFFICE** Program Delivery
P.I. No. 0007406
SR 4BU, SR 38 and SR 520 **DATE** August 22, 2011
Traffic Signal Upgrades

FROM 
Bobby Hilliard, P.E., State Program Delivery Engineer

TO Brent Story, P.E., State Design Policy Engineer
Attn: Dave Peters, State Conceptual Design Group Manager

SUBJECT Request for Location Design and Approval

Description and Project Proposal: This project consists of upgrading traffic signal equipment at eight locations in the City of Waycross, Ware County. The project originally included 10 signals but two were removed from the project and the locations were not renumbered. The project is needed to improve the overall efficiency and safety of traffic flow by upgrading traffic signal displays and state-of-the-art traffic control equipment and providing better signal coordination through new signal interconnection cable. The proposed project would also improve pedestrian mobility with improved crosswalks, pedestrian signals and sidewalk ramps that are constructed in compliance with the Americans with Disability Act (ADA).

Concept Approval Date: There is not an approved concept for this project because at the time when it was programmed, concept reports for the signal upgrade projects were not being written.

Concept Update: N/A

Environmental Assessment and Reassessment Approval Date: The Categorical Exclusion (CE) for this project was approved 7-24-07. The reevaluation was approved on 7-14-11.

Public Involvement:

Public Hearing Open House Results: N/A

Public Information Open House: N/A

Consistency with Approved Planning:

The design description as presented herein and submitted for approval is consistent with the Traffic Signal Upgrade Program.

DEPARTMENT OF TRANSPORT
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

Recommendations: It is recommended that the location and design for the project be approved and that the attached Notice be approved for advertising.

RECOMMEND: Bill R. McManis
Director of Engineering

APPROVE: Bill R. McManis
Chief Engineer

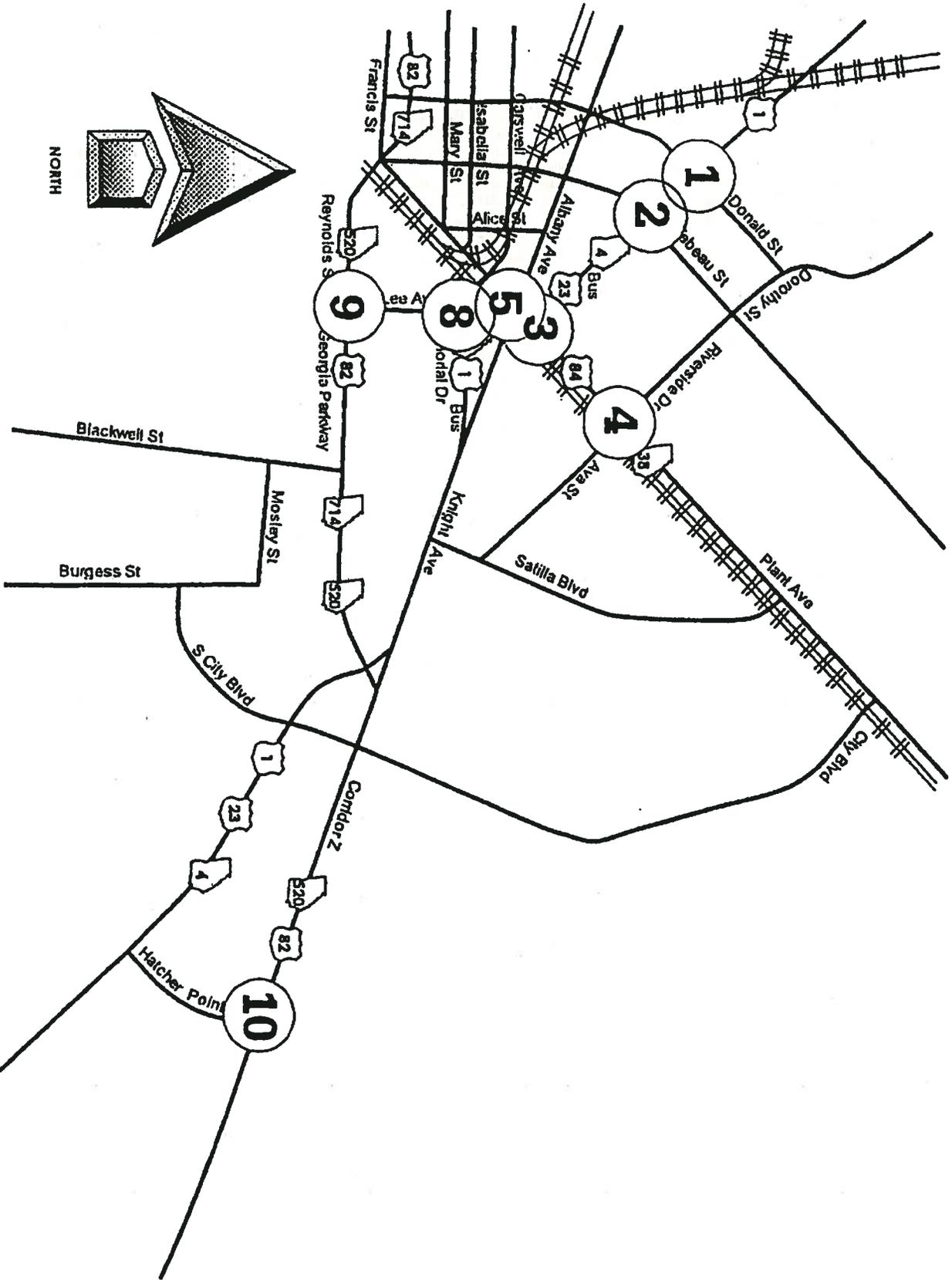
9/7/2011
Date

DATE OF LOCATION AND DESIGN APPROVAL: September 9, 2011
(To be entered by the State Conceptual Design Group Manager)

Attachments:

- Sketch Map
- Cost Estimate
- Notice of Location and Design Approval

PINU 0004406
Ware County



DETAILED COST ESTIMATE



Job: 0007406-1

JOB NUMBER: 0007406-1

FED/STATE PROJECT NUMBER

SPEC YEAR: 01

DESCRIPTION: WARE COUNTY TRAFFIC SIGNAL UPGRADES

ITEMS FOR JOB 0007406-1

0010 - ROADWAY

LINE	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0070	310-5060	8.000	SY	\$17.01	GR AGGR BS CRS 6IN INCL MATL	\$136.05
0080	441-0104	801.000	SY	\$44.10	CONC SIDEWALK, 4 IN	\$35,323.82
0090	441-0108	38.000	SY	\$68.83	CONC SIDEWALK, 8 IN	\$2,615.70
0100	441-0748	8.000	SY	\$78.23	CONC MEDIAN, 6 IN	\$625.83
0110	441-5003	45.000	LF	\$17.58	CONC HEADER CURB, 8", TP 3	\$791.08
0120	441-6222	1236.000	LF	\$22.33	CONC CURB & GUTTER/ 8"X30"TP2	\$27,595.16
0180	634-1200	44.000	EA	\$103.57	RIGHT OF WAY MARKERS	\$4,557.11
SUBTOTAL FOR ROADWAY:						\$71,644.85

0015 - SIGNING MARKING

LINE	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0420	653-0110	2.000	EA	\$76.31	THERM PVMT MARK, ARROW, TP 1	\$152.61
0430	653-0120	33.000	EA	\$78.42	THERM PVMT MARK, ARROW, TP 2	\$2,587.83
0440	653-0130	2.000	EA	\$131.50	THERM PVMT MARK, ARROW, TP 3	\$263.00
0450	653-0210	17.000	EA	\$100.67	THERM PVMT MARK, WORD, TP 1	\$1,711.42
0460	653-1501	12635.000	LF	\$0.47	THERMO SOLID TRAF ST, 5 IN, WHI	\$5,896.88
0470	653-1502	11320.000	LF	\$0.46	THERMO SOLID TRAF ST, 5 IN YEL	\$5,235.27
0480	653-1704	1260.000	LF	\$3.46	THERM SOLID TRAF STRIPE, 24", WH	\$4,356.61
0490	653-1804	9145.000	LF	\$1.98	THERM SOLID TRAF STRIPE, 6", WH	\$18,078.76
0500	653-3501	9645.000	GLF	\$0.35	THERMO SKIP TRAF ST, 5 IN, WHI	\$3,373.24
0510	653-3502	3900.000	GLF	\$0.23	THERMO SKIP TRAF ST, 5 IN, YEL	\$900.98
0520	653-6008	168.000	SY	\$3.62	THERM TRAF STRIPING, YELLOW	\$608.81
0530	654-1010	8.000	EA	\$42.82	RAISED PVMT MARKERS TP 10	\$342.57
SUBTOTAL FOR SIGNING MARKING:						\$43,588.08

DETAILED COST ESTIMATE



Job: 0007406-1

0020 - SIGNAL

LINE	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0010	150-1000	1.000	LS	\$102,000.00	TRAFFIC CONTROL - CSSTP-0007-00(406)	\$102,000.00
0130	615-1000	210.000	LF	\$30.48	JACK OR BORE PIPE - 6 IN CASING	\$6,400.47
0140	615-1200	5152.000	LF	\$10.44	DIRECTIONAL BORE - ALL SIZES	\$53,789.92
0190	636-1041	448.000	SF	\$32.99	HWY SIGNS, TP 2MAT, REFL SH TP 9	\$14,780.25
0200	639-2001	11453.000	LF	\$1.32	STEEL WIRE STRAND CABLE, 1M"	\$15,171.56
0210	639-3004	4.000	EA	\$15,081.70	STEEL STRAIN POLE, TP IV WITH MASTARM, 45 FT	\$60,326.80
0220	639-3004	2.000	EA	\$17,081.70	STEEL STRAIN POLE, TP IV WITH MASTARM, 65 FT	\$34,163.40
0230	639-3004	1.000	EA	\$18,081.70	STEEL STRAIN POLE, TP IV WITH TANDEM MASTARMS, 40/50 FT	\$18,081.70
0240	639-3004	1.000	EA	\$19,581.70	STEEL STRAIN POLE, TP IV WITH TANDEM MASTARMS, 45/60 FT	\$19,581.70
0250	639-3004	5.000	EA	\$20,081.70	STEEL STRAIN POLE, TP IV WITH TANDEM MASTARMS, 45/65 FT	\$100,408.50
0260	639-3004	3.000	EA	\$19,581.70	STEEL STRAIN POLE, TP IV WITH TANDEM MASTARMS, 50/55 FT	\$58,745.10
0270	639-3004	1.000	EA	\$20,081.70	STEEL STRAIN POLE, TP IV WITH TANDEM MASTARMS, 50/60 FT	\$20,081.70
0280	639-3004	1.000	EA	\$20,581.70	STEEL STRAIN POLE, TP IV WITH TANDEM MASTARMS, 50/65 FT	\$20,581.70
0280	639-3004	1.000	EA	\$20,081.70	STEEL STRAIN POLE, TP IV WITH TANDEM MASTARMS, 55/55 FT	\$20,081.70
0300	639-3004	1.000	EA	\$20,581.70	STEEL STRAIN POLE, TP IV WITH TANDEM MASTARMS, 55/60 FT	\$20,581.70
0310	639-5000	2.000	EA	\$5,694.98	PRESTRESSED CONC STR POLE, TP-IV	\$11,389.95
0320	647-1000	1.000	LS	\$88,400.00	TRAF SIGNAL INSTALLATION NO - NO 1	\$88,400.00
0330	647-1000	1.000	LS	\$95,200.00	TRAF SIGNAL INSTALLATION NO - NO 2	\$95,200.00
0340	647-1000	1.000	LS	\$75,500.00	TRAF SIGNAL INSTALLATION NO - NO 3	\$75,500.00
0350	647-1000	1.000	LS	\$102,500.00	TRAF SIGNAL INSTALLATION NO - NO 4	\$102,500.00
0360	647-1000	1.000	LS	\$101,000.00	TRAF SIGNAL INSTALLATION NO - NO 5	\$101,000.00
0390	647-1000	1.000	LS	\$91,800.00	TRAF SIGNAL INSTALLATION NO - NO 8	\$91,800.00
0400	647-1000	1.000	LS	\$92,500.00	TRAF SIGNAL INSTALLATION NO - NO 8	\$92,500.00
0410	647-1000	1.000	LS	\$102,800.00	TRAF SIGNAL INSTALLATION NO - NO 10	\$102,800.00
0540	682-6110	320.000	LF	\$8.27	CONDUIT, RIGID, 1 IN	\$2,645.38
0550	682-6120	70.000	LF	\$11.62	CONDUIT, RIGID, 2 IN	\$813.16
0560	682-6219	730.000	LF	\$3.64	CONDUIT, NONMETL, TP 2, 1 IN	\$2,654.66
0570	682-6222	5900.000	LF	\$4.81	CONDUIT, NONMETL, TP 2, 2 IN	\$28,380.71
0580	682-6233	9412.000	LF	\$2.09	CONDUIT, NONMETL, TP 3, 2 IN	\$19,641.24
0590	687-1000	1.000	LS	\$47,000.00	TRAFFIC SIGNAL TIMING - CSSTP-0007-00(406)	\$47,000.00
SUBTOTAL FOR SIGNAL:						\$1,426,781.30

0025 - COMMUNICATIONS

LINE	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0630	935-1113	11000.000	LF	\$1.36	OUT PLNT FBR OPT CBL, LOOSE TB, SM, 24 FBR	\$14,913.58
0640	935-1511	550.000	LF	\$1.41	OUT PLNT FBR OPT CBL, DROP, SM, 6 FBR	\$777.29
0650	935-3203	8.000	EA	\$687.46	FBR OPTIC CLOSURE, AERL(SLD), 24 FBR	\$5,498.71
0660	935-3602	8.000	EA	\$437.85	FBR, OP. CLOS., FDC PRE-TERM., TYP. A, 6	\$3,503.80
0670	935-4010	96.000	EA	\$51.28	FIBER OPTIC SPLICE, FUSION	\$4,922.68
0680	935-5050	32.000	EA	\$50.89	FIBER OPTIC PATCH CORD, SM	\$1,628.56
0690	935-5080	28.000	EA	\$181.00	FIBER OPTIC SNOWSHOE	\$5,068.01
0700	935-6562	8.000	EA	\$1,699.09	EXT TRNSCVR, DRP&RPT, 1310SM, (SIGNAL JOBS)	\$13,592.71
0710	935-8000	1.000	LS	\$15,000.00	TESTING	\$15,000.00
SUBTOTAL FOR COMMUNICATIONS:						\$64,908.16

0030 - EROSION

LINE	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0020	163-0232	1.000	AC	\$341.72	TEMPORARY GRASSING	\$341.72
0030	163-0240	3.000	TN	\$272.83	MULCH	\$818.50
0040	165-0030	1800.000	LF	\$0.50	MAINT OF TEMP SILT FENCE, TP C	\$897.39
0050	165-0105	3.000	EA	\$34.67	MAINT OF INLET SEDIMENT TRAP	\$104.01
0060	171-0030	1800.000	LF	\$3.75	TEMPORARY SILT FENCE, TYPE C	\$6,741.74
0600	700-7000	1.000	TN	\$82.27	AGRICULTURAL LIME	\$82.27
0610	700-7010	2.500	GL	\$17.57	LIQUID LIME	\$43.93
0620	700-8000	0.200	TN	\$518.86	FERTILIZER MIXED GRADE	\$103.77
SUBTOTAL FOR EROSION:						\$9,133.33

DETAILED COST ESTIMATE



Job: 0007406-1

TOTALS FOR JOB 0007406-1

ITEMS COST:	\$1,615,974.72	
COST GROUP COST:	\$0.00	
ESTIMATED COST:	\$1,615,974.72	
CONTINGENCY PERCENT:	0.00	
ENGINEERING AND INSPECTION. @5%	0.00	\$80,799
ESTIMATED COST WITH CONTINGENCY AND E&I:	\$1,615,974.72	

Base Construction: 1615974.72

5% E & I : 80,799

Fuel & Asphalt Adj: 12.31

\$1,696,786.03 G8B

P.I. Number 7406

County Ware

Date 8/7/2011

Project Number CSSTP-0007-00(406)

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

ENTER FPL DIESEL	3.959
ENTER FPM DIESEL	8.908

ENTER FPL UNLEADED	3.714
ENTER FPM UNLEADED	8.3565

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

INCREASE ADJUSTMENT
125.00%

INCREASE ADJUSTMENT
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)	5.250	0.29	1.52	0.24	1.26	
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)		2.90		0.71		
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
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Stru Steel Plan Quantity (LB) Section 501				8.00		1.50	
Stru Steel Plan Quantity (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 Plan Quantity(LB) Section 511				8.00		1.50	
Stru Reinf Plan Quantity(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	
SUM QF DIESEL=				1.52	SUM QF UNLEADED=		1.28
DIESEL PRICE ADJUSTMENT(\$)					\$6.93		
UNLEADED PRICE ADJUSTMENT(\$)					\$5.38		

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

ENTER APL

ENTER APM

MISSING APL OR APM

MISSING APL OR APM

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

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

MONTHLY PRICE ADJUSTMENT(\$)

MISSING APL OR APM

ADJUSTMENT SUMMARY

FUEL PRICE ADJUSTMENT (ENGLISH 125% MAX)

DIESEL PRICE ADJUSTMENT(\$) **\$6.93**

UNLEADED PRICE ADJUSTMENT(\$) **\$5.38**

ASPHALT CEMENT PRICE ADJUSTMENT (BITUMINOUS TACK COAT 125% MAX)

400 / 402 ASPHALT CEMENT PRICE ADJUSTMENT 125% MAX

ASPHALT CEMENT PRICE ADJUSTMENT FOR BITUMINOUS TACK COAT(Surface Treatment 125% MAX) **MISSING APL OR APM**

REMARKS:

TOTAL ADJUSTMENTS

\$12.31

NOTICE OF LOCATION AND DESIGN APPROVAL

CSSTP-0007-00(406), Ware County

P. I. NUMBER 0007406

Notice is hereby given in compliance with Georgia Code 22-2-109 and 32-3-5 that the Georgia Department of Transportation has approved the Location and Design of this project.

The date of location approval is September 9, 2011.

This project consists of upgrading traffic signal equipment at eight locations in the City of Waycross, Ware County. The project is needed to improve the overall efficiency and safety of traffic flow by upgrading traffic signal displays and state-of-the-art traffic control equipment and providing better signal coordination through new signal interconnection cable. The proposed project would also improve pedestrian mobility with improved crosswalks, pedestrian signals and sidewalk ramps that are constructed in compliance with the Americans with Disability Act (ADA). This project is located within land lots 166, 167, 203 & 205 in Ware County.

Drawings or maps or plats of the proposed project, as approved, are on file and are available for public inspection at the Georgia Department of Transportation:

*Greg Walker
District 5, Waycross Area Engineer
E-Mail: jacwalker@dot.ga.gov
104 North Nichols St
Waycross, Ga 31501
Phone: (912)285-6009*

Any interested party may obtain a copy of the drawings or maps or plats or portions thereof by paying a nominal fee and requesting in writing to:

*Bobby Hilliard, P.E.
State Program Delivery Engineer
Office of Program Delivery
Email: bhilliard@dot.ga.gov
600 West Peachtree St NW, 25th floor
Atlanta, Georgia 30308
(404) 631-1122*

Any written request or communication in reference to this project or notice SHOULD include the Project and P. I. Numbers as noted at the top of this notice.