

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

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

FILE P.I. #0009938 **OFFICE** Design Policy & Support
Dawson County
GDOT District 1 - Gainesville **DATE** 6/19/2015
Roundabout: SR 53 at SR 183

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:

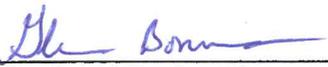
Glenn Bowman, Director of Engineering
Joe Carpenter, Director of P3/Program Delivery
Genetha Rice-Singleton, Assistant Director of P3/Program Delivery
Albert Shelby, State Program Delivery Engineer
Darryl VanMeter, State Innovative Delivery Engineer
Bobby Hilliard, Program Control Administrator
Cindy VanDyke, State Transportation Planning Administrator
Hiral Patel, State Environmental Administrator
Andrew Heath, State Traffic Engineer
Angela Robinson, Financial Management Administrator
Lisa Myers, State Project Review Engineer
Andy Casey, State Roadway Design Engineer
Attn: Fletcher Miller, Design Group Manager
Richard Cobb, Location Bureau Chief
Brent Cook, District Engineer
Brandon Kirby, District Preconstruction Engineer
Kim Coley, District Planning & Programming Engineer
Matthew Needham, Area Engineer - D1, A1
Steven Heng, Project Manager
BOARD MEMBER - 9th Congressional District

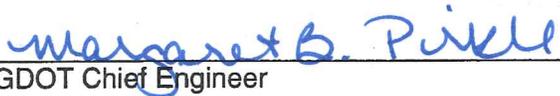
Location and Design Report
County: Dawson

P.I. No. 0009938

Consistency with Approved Planning: The design description as presented herein and submitted for approval is consistent with the approved Concept Report.

Recommendations: Recommend that the location and design for the project be approved and that the attached Notice be approved for advertising.

Concur: 
GDOT Director of Engineering

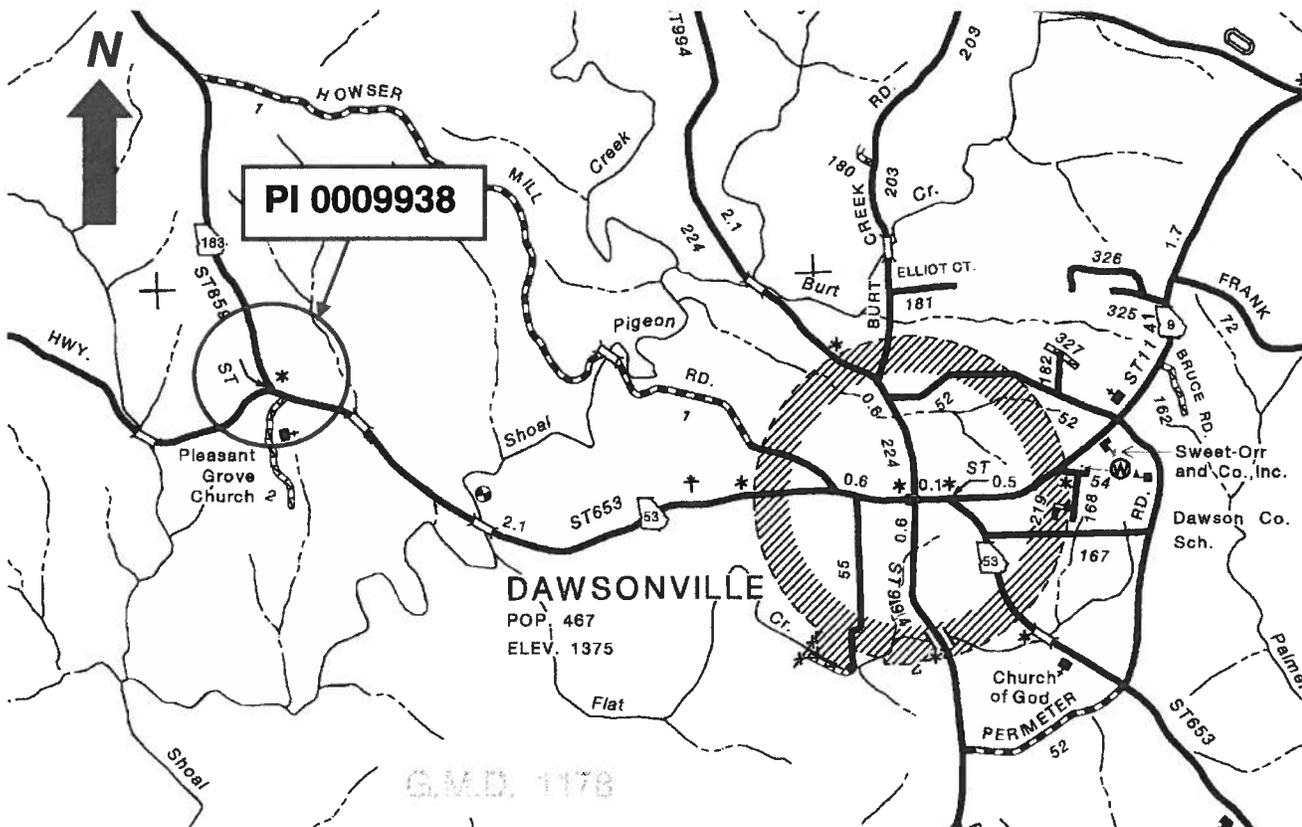
Approve:  6.19.15
GDOT Chief Engineer Date

DATE OF LOCATION AND DESIGN APPROVAL: JUNE 19, 2015

Attachments:

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

PROJECT LOCATION



**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

FILE P.I. No.

OFFICE

PROJECT DESCRIPTION

DATE

From:

To: Lisa L. Myers, State Project Review Engineer

Subject: REVISIONS TO PROGRAMMED COSTS

PROJECT MANAGER

MGMT LET DATE

MGMT ROW DATE

PROGRAMMED COSTS (TPro W/OUT INFLATION)

LAST ESTIMATE UPDATE

CONSTRUCTION \$

DATE

RIGHT OF WAY \$

DATE

UTILITIES \$

DATE

REVISED COST ESTIMATES

CONSTRUCTION* \$

RIGHT OF WAY \$

UTILITIES \$

*Cost Contains % Contingency

REASONS FOR COST INCREASE AND CONTINGENCY JUSTIFICATION:

Annual update costs increased due to updated prices in CES and a contingency of 5%. Pavement quantities were updated to reflect the construction of a temporary detour required during staging. The previous cost estimates were based on the conceptual design. The 5% risk contingency was used due to the project type of safety in the preliminary plan development phase.

CONTINGENCY SUMMARY

A. CONSTRUCTION COST ESTIMATE:	\$	2,144,078.16	Base Estimate From CES
B. ENGINEERING AND INSPECTION (E & I):	\$	107,203.91	Base Estimate (A) x 5 %
C. CONTINGENCY:	\$	112,564.10	Base Estimate (A) + E & I (B) x 5 % <u>See % Table in "Risk Based Cost Estimation" Memo</u>
D. TOTAL LIQUID AC ADJUSTMENT:	\$	187,053.31	Total From Liquid AC Spreadsheet
E. CONSTRUCTION TOTAL:	\$	2,550,899.48	(A + B + C + D = E)

REIMBURSABLE UTILITY COSTS

UTILITY OWNER	REIMBURSABLE COST
Amicola EMC	\$ 18,900.00
Georgia Power Company	\$ 88,000.00
TOTAL	\$ 106,900.00

ATTACHMENTS:

Detailed Cost Estimate Printout From TRAQS
Liquid AC Adjustment Spreadsheet

DETAILED COST ESTIMATE



Job: 0009938

JOB NUMBER 0009938

FED/STATE PROJECT NUMBER

SPEC YEAR: 13

DESCRIPTION: SR 53 AT SR 183 ROUNDABOUT

ITEMS FOR JOB 0009938

0010 - ROADWAY

Line Number	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0035	150-1000	1.000	LS	\$105,000.00000	TRAFFIC CONTROL - LS	\$105,000.00
0040	210-0100	1.000	LS	\$480,000.00000	GRADING COMPLETE - LS	\$480,000.00
0020	310-1101	13715.000	TN	\$20.48631	GR AGGR BASE CRS, INCL MATL	\$280,989.74
0005	402-3113	1898.000	TN	\$65.98000	RECYL AC 12.5MM SP,GP1/2,BM&HL	\$125,230.04
0015	402-3121	5423.000	TN	\$70.72073	RECYL AC 25MM SP,GP1/2,BM&HL	\$383,518.52
0010	402-3190	2531.000	TN	\$75.39383	RECYL AC 19 MM SP,GP 1 OR 2 ,INC BM&HL	\$190,821.78
0025	413-1000	2761.000	GL	\$3.24535	BITUM TACK COAT	\$8,960.41
0230	441-0104	623.000	SY	\$36.70849	CONC SIDEWALK, 4 IN	\$22,869.39
0235	441-0748	1034.000	SY	\$38.81854	CONC MEDIAN, 6 IN	\$40,138.37
0054	441-5025	315.000	LF	\$16.10000	CONC HEADER CURB, 4, TP 9	\$5,071.50
0030	441-6222	1356.000	LF	\$17.64680	CONC CURB & GUTTER/ 8X30TP2	\$23,929.06
0029	610-2586	8223.000	SY	\$33.06000	REM ASPH PVMT INCL BASE	\$271,852.38
0050	632-0003	3.000	EA	\$4,198.47000	CHANGEABLE MESS SIGN,PORT,TP 3	\$12,595.41
0045	634-1200	28.000	EA	\$102.75191	RIGHT OF WAY MARKERS	\$2,877.05
SUBTOTAL FOR ROADWAY:						\$1,953,833.65

0020 - PERMANENT EROSION CONTROL

Line Number	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0055	163-0240	174.000	TN	\$242.45037	MULCH	\$42,186.36
0060	700-6910	12.000	AC	\$643.85667	PERMANENT GRASSING	\$7,726.28
0065	700-7000	36.000	TN	\$32.38133	AGRICULTURAL LIME	\$1,165.73
0070	700-8000	12.000	TN	\$403.19649	FERTILIZER MIXED GRADE	\$4,838.36
0075	700-8100	600.000	LB	\$1.78696	FERTILIZER NITROGEN CONTENT	\$1,072.18
0085	716-2000	9306.000	SY	\$0.97000	EROSION CONTROL MATS, SLOPES	\$9,026.82
SUBTOTAL FOR PERMANENT EROSION CONTROL:						\$66,016.73

DETAILED COST ESTIMATE



Job: 0009938

0030 - TEMPORARY EROSION CONTROL

Line Number	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0090	163-0232	6.000	AC	\$64.41916	TEMPORARY GRASSING	\$386.51
0095	163-0300	3.000	EA	\$1,213.86821	CONSTRUCTION EXIT	\$3,641.60
0210	163-0502	2.000	EA	\$526.32000	CONSTR AND REMOVE SILT CONTROL GATE,TP 2	\$1,052.64
0215	163-0503	7.000	EA	\$379.53000	CONSTR AND REMOVE SILT CONTROL GATE,TP 3	\$2,656.71
0205	163-0527	35.000	EA	\$219.05000	CNST/REM RIP RAP CKDM,STN P RIPRAP/SN BG	\$7,666.75
0195	163-0528	70.000	LF	\$4.30000	CONSTR AND REM FAB CK DAM -TP C SLT FN	\$301.00
0100	165-0010	1258.000	LF	\$0.57937	MAINT OF TEMP SILT FENCE, TP A	\$728.85
0220	165-0041	420.000	LF	\$2.77000	MAINT OF CHECK DAMS - ALL TYPES	\$1,163.40
0185	165-0086	2.000	EA	\$79.14000	MAINT OF SILT CONTROL GATE, TP 2	\$158.28
0190	165-0087	7.000	EA	\$93.25000	MAINT OF SILT CONTROL GATE, TP 3	\$652.75
0105	165-0101	14.000	EA	\$472.40980	MAINT OF CONST EXIT	\$6,613.74
0180	167-1000	2.000	EA	\$309.15000	WATER QUALITY MONITORING AND SAMPLING	\$618.30
0110	171-0010	2515.000	LF	\$1.64162	TEMPORARY SILT FENCE, TYPE A	\$4,128.67
SUBTOTAL FOR TEMPORARY EROSION CONTROL:						\$29,769.20

0040 - SIGNING & MARKING

Line Number	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0310	429-1000	9.000	EA	\$604.98197	RUMBLE STRIPS	\$5,444.84
0270	636-1020	252.000	SF	\$13.93700	HWY SGN,TP1MAT,REFL SH TP3	\$3,512.12
0275	636-1029	127.000	SF	\$15.03372	HWY SGN,TP2 MATL,REFL SH TP 3	\$1,909.28
0335	636-1045	12.000	SF	\$25.00000	HWY SGN,TP2MAT,REFL SH TP 11	\$300.00
0280	636-2070	179.000	LF	\$8.26976	GALV STEEL POSTS, TP 7	\$1,480.29
0285	636-2080	48.000	LF	\$8.96409	GALV STEEL POSTS, TP 8	\$430.28
0290	636-2090	32.000	LF	\$8.81615	GALV STEEL POSTS, TP 9	\$275.72
0320	636-3010	2.000	EA	\$446.74161	GROUND-MOUNTED BREAKAWAY SIGN SUPPORT	\$893.48
0325	653-0240	3.000	EA	\$250.00000	THERM PVMT MARK, WORD , TP 4	\$750.00
0315	653-0296	3.000	EA	\$181.12000	THERMO PVMT MARKING,WORD,TP 15	\$543.36
0115	653-1501	5869.000	LF	\$0.44101	THERMO SOLID TRAF ST 5 IN, WHI	\$2,588.29
0120	653-1502	2869.000	LF	\$0.42134	THERMO SOLID TRAF ST, 5 IN YEL	\$1,208.82
0295	653-1804	496.000	LF	\$2.26686	THERM SOLID TRAF STRIPE, 8,WH	\$1,124.36
0300	653-3502	222.000	GLF	\$0.40322	THERMO SKIP TRAF ST, 5 IN, YEL	\$89.51
0330	653-4830	228.000	GLF	\$0.59000	THER SKIP TRAF ST, 18 IN, WHI	\$134.52
0305	653-6006	729.000	SY	\$3.65921	THERM TRAF STRIPING, YELLOW	\$2,667.56
SUBTOTAL FOR SIGNING & MARKING:						\$23,362.43

0050 - LANDSCAPING

Line Number	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0080	700-9300	260.000	SY	\$4.53000	SOD	\$1,177.80
0125	702-9005	100.000	LB	\$8.15818	SPRING APPLICATION FERTILIZER	\$815.82
0130	702-9025	136.000	SY	\$5.60705	LANDSCAPE MULCH	\$762.56
SUBTOTAL FOR LANDSCAPING:						\$2,756.18

0060 - LIGHTING

Line Number	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0135	682-9030	1.000	LS	\$35,000.00000	LIGHTING SYSTEM	\$35,000.00
SUBTOTAL FOR LIGHTING:						\$35,000.00

DETAILED COST ESTIMATE



Job: 0009938

0070 - DRAINAGE

Line Number	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0245	550-1180	237.000	LF	\$41.56582	STM DR PIPE 18,H 1-10	\$9,851.10
0250	550-2180	300.000	LF	\$32.35826	SIDE DR PIPE 18,H 1-10	\$9,707.48
0260	550-4118	12.000	EA	\$374.46361	FLARED END SECT 18 IN, SIDE DR	\$4,493.56
0255	550-4218	3.000	EA	\$583.02587	FLARED END SECT 18 IN, ST DR	\$1,749.08
0265	668-2100	4.000	EA	\$1,887.43640	DROP INLET, GP 1	\$7,549.75
SUBTOTAL FOR DRAINAGE:						\$33,350.97

TOTALS FOR JOB 0009938

ITEMS COST:	\$2,144,078.16
COST GROUP COST:	\$0.00
ESTIMATED COST:	\$2,144,078.16
CONTINGENCY PERCENT:	0.00
ENGINEERING AND INSPECTION:	0.00
ESTIMATED COST WITH CONTINGENCY AND E&I:	\$2,144,078.16

PROJ. NO.
 P.I. NO. 0009938
 DATE 9/26/2014

CALL NO.

INDEX (TYPE)	DATE	INDEX
REG. UNLEADED	Sep-14	\$ 3.335
DIESEL		\$ 3.765
LIQUID AC		\$ 618.00

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

LIQUID AC ADJUSTMENTS

PA=(((APM-APL)/APL)xTMTxAPL

Asphalt

Price Adjustment (PA)				182656.08	\$	182,656.08
Monthly Asphalt Cement Price month placed (APM)	Max. Cap	60%	\$	988.80		
Monthly Asphalt Cement Price month project let (APL)			\$	618.00		
Total Monthly Tonnage of asphalt cement (TMT)				492.6		

ASPHALT	Tons	%AC	AC ton
Leveling		5.0%	0
12.5 OGFC		5.0%	0
12.5 mm	1898	5.0%	94.9
9.5 mm SP		5.0%	0
25 mm SP	5423	5.0%	271.15
19 mm SP	2531	5.0%	126.55
	9852		492.6

BITUMINOUS TACK COAT

Price Adjustment (PA)				\$ 4,397.23	\$	4,397.23
Monthly Asphalt Cement Price month placed (APM)	Max. Cap	60%	\$	988.80		
Monthly Asphalt Cement Price month project let (APL)			\$	618.00		
Total Monthly Tonnage of asphalt cement (TMT)				11.85877365		

Bitum Tack

Gals	gals/ton	tons
2761	232.8234	11.8587736

BITUMINOUS TACK COAT (surface treatment)

Price Adjustment (PA)				0	\$	-
Monthly Asphalt Cement Price month placed (APM)	Max. Cap	60%	\$	988.80		
Monthly Asphalt Cement Price month project let (APL)			\$	618.00		
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

TOTAL LIQUID AC ADJUSTMENT \$ 187,053.31

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

Date: 9/15/2014 Project: 0009938
 Revised: County: Dawson
 PI: 0009938

Description: SR 53 @ SR 183 Roundabout
 Project Termini: SR 53 @ SR 183 Roundabout

Existing ROW: Varies
 Required ROW: Varies
 Parcels: 26

Land and Improvements _____ \$1,445,250.00

Proximity Damage \$150,000.00

Consequential Damage \$75,000.00

Cost to Cures \$50,000.00

Trade Fixtures \$0.00

Improvements \$275,000.00

Valuation Services _____ \$101,250.00

Legal Services _____ \$167,550.00

Relocation _____ \$52,000.00

Demolition _____ \$0.00

Administrative _____ \$219,500.00

TOTAL ESTIMATED COSTS _____ \$1,985,550.00

TOTAL ESTIMATED COSTS (ROUNDED) _____ \$1,986,000.00

Preparation Credits	Hours	Signature

Prepared By: Dathone Alexander CG#: 286999 09/15/2014 (DATE)

Approved By: Dathone Alexander CG#: 286999 09/15/2014 (DATE)

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

NOTICE OF LOCATION AND DESIGN APPROVAL
DAWSON COUNTY
P. I. NO. 0009938

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 and design approval is: JUNE 19, 2015

The proposed project would reconstruct the existing, at-grade intersection of SR 53 at SR 183 in Dawson County, Georgia, to a three-legged one-lane roundabout. The total project length is estimated to be 0.56 mile. The typical section for the approaches consists of 12-ft to 20-ft wide lanes with a raised splitter island, 10-ft rural shoulder beyond the inscribed circle, and 12-ft urban shoulder within the inscribed circle which includes curb and gutter and 5-ft sidewalk.

This project is located in Georgia Militia District (GMD) 1178 and is in Land Lots 318, 319, 362, 363, 364, 385, 386, and 387 of the 4th Land District of Dawson County, Georgia.

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:

*Matthew Needham
mneedham@dot.ga.gov
Georgia Department of Transportation
2594 Gillsville Highway
Gainesville, GA 30507
(770) 535-5759*

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:

*Albert V. Shelby
State Program Delivery Engineer
Attn: Steven Heng
KhHeng@dot.ga.gov
600 West Peachtree Street, NW
Atlanta, GA 30308
(404) 631-1758*

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