



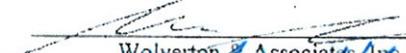
DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA  
REVISED PROJECT CONCEPT REPORT

Project Number: STP00-0000-00(545)  
County: Brooks/Colquitt  
P. I. Number: 0000545  
Federal Route Number: N/A  
State Route Number: SR 133

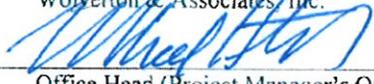
The feature from the approved concept report being revised is the median type of the typical section.

Submitted for approval:

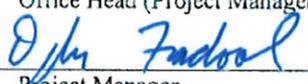
DATE 4/13/10

  
Wolverton & Associates, Inc.

DATE 4/14/10

  
Office Head (Project Manager's Office)

DATE 4-14-10

  
Project Manager

Recommendation for approval:

DATE 5/19/10

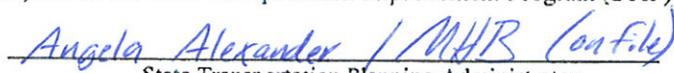
  
Glenn Bowman / MHB (on file)  
State Environmental Administrator

DATE \_\_\_\_\_

\_\_\_\_\_  
State Bridge Design Engineer (if applicable)

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 5/13/10

  
Angela Alexander / MHB (on file)  
State Transportation Planning Administrator

REVISED PROJECT CONCEPT REPORT

Project Number: STP00-0000-00(545)

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**Need and Purpose:**

State Route 133 is a major north-south corridor in South Georgia and provides a vital connection between Valdosta on the south with Albany to the north. For its entire length between Valdosta and Albany, S.R. 133 is identified for eventual widening due to its inclusion on the Governor's Road Improvement Program (GRIP). The GRIP was initiated in the 1980's to address the importance of stimulating economic growth via an improved transportation network. S.R. 133 was recently added to the GRIP by the State Legislature and approved by the Governor.

Project P.I. 0000545 is not on a route designated in the GDOT Statewide Bicycle & Pedestrian Plan or a local bike plan. This project is one of 9 projects that will widen S.R. 133 between Albany and Valdosta. More specifically, there are 5 projects to widen S.R.133 between Valdosta and Moultrie and 4 projects between Moultrie and Albany. The proposed limits of the 5 projects (PI # 0000543, 0000544, 0000545, 0000546 and 431780) between Valdosta and Moultrie have logical termini; the southern terminus of these projects will tie into the existing four lane section of S.R. 133 near C.R. 276/Troupeville Road in Brooks County and the northern terminus of these projects will tie into the existing four lane section at the S.R. 35/East Moultrie Bypass.

**Project Location:** Project STP00-0000-00(545) in Brooks and Colquitt Counties is proposed to improve 9.63 miles of S.R. 133 from Old Quitman Adel Road/ C.R. 1 (Brooks County MP 12.72), where it ties to Project STP00-0000-00(544), to Old Berlin Road/ C.R. 256 (Colquitt County MP 2.19), where it ties to Project STP00-0000-00(546). Improvements consist of widening the existing two-lane S.R. 133 to a four-lane roadway with turn lanes as needed.

**Description of the approved concept:** Project P.I. 0000545 proposes a 4-lane section with a 44' depressed median from Old Quitman Adel Road/ C.R. 1 to S.R. 333 and a 24' raised median typical section from S.R. 333 to Old Berlin Road/ C.R. 256. Improving S.R. 133 to a multi-lane facility with separate turning lanes will reduce turning conflicts from the through traffic and improve operations.

**PDP Classification:** Major  X  Minor \_\_\_\_\_

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

**Functional Classification:** Rural Minor Arterial

**U.S. Route Number(s):** N/A **State Route Number(s):** SR 133

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

Base Year: (2010) 5,150 Design Year: (2030) 7,725

**Updated traffic data (AADT):**

Base Year: (2016) 5,500 Design Year: (2036) 8,200

**Approved Programmed/Schedule:**

P.E: 2003 R/W: LR Construction: LR

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

Note: A VE study was held in September 2006 and implemented in December 2006.

**Benefit/Cost Ratio:** N/A

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

**Is the project in a PM2.5 Non-Attainment area?** Yes ( ) No ( **X** )

REVISED PROJECT CONCEPT REPORT

Project Number: STP00-0000-00(545)

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**Approved features to be revised:** The 44' grassed median width from Old Quitman Adel Road/ C.R. 1 to S.R. 333 was reduced to 32' to minimize right-of-way and environmental impacts and reduce construction and right-of-way acquisition costs. The 32' depressed grassed median transitions from the 14' flush median at Old Quitman Adel Road/CR 1.

**Proposed features:** The 44' depressed median was revised to a 32' depressed median.

**Reason for Change:** The 44' depressed median was revised to a 32' depressed median to minimize right-of-way and environmental impacts and reduce construction and right-of-way acquisition costs.

**Potential Environmental Impacts of Proposed Revision:** Environmental impacts were minimized by reducing the typical section footprint. The 44' depressed median was reduced to a 32' depressed median.

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

**Environmental Responsibilities:** Consultant, GDOT

**Updated cost estimates:**

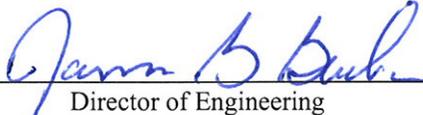
1. Construction including Contingencies, Engineering and Inspection,
2. Right-of-Way
3. Utilities (reimbursable) and Utility Contingencies
4. Fuel Adjustment – see attachment
5. Environmental Mitigation – see attachment

**Recommendation:** It is recommended that the proposed revision to the concept report be approved for implementation.

**Attachments:**

1. Location Map
2. Cost Estimate
3. Utility Cost Estimate
4. Preliminary Right of Way Cost Estimate
5. Fuel Adjustment
6. Environmental Mitigation Cost Estimate
7. Typical sections
8. VE Implementation Letter
9. Approved Traffic Data

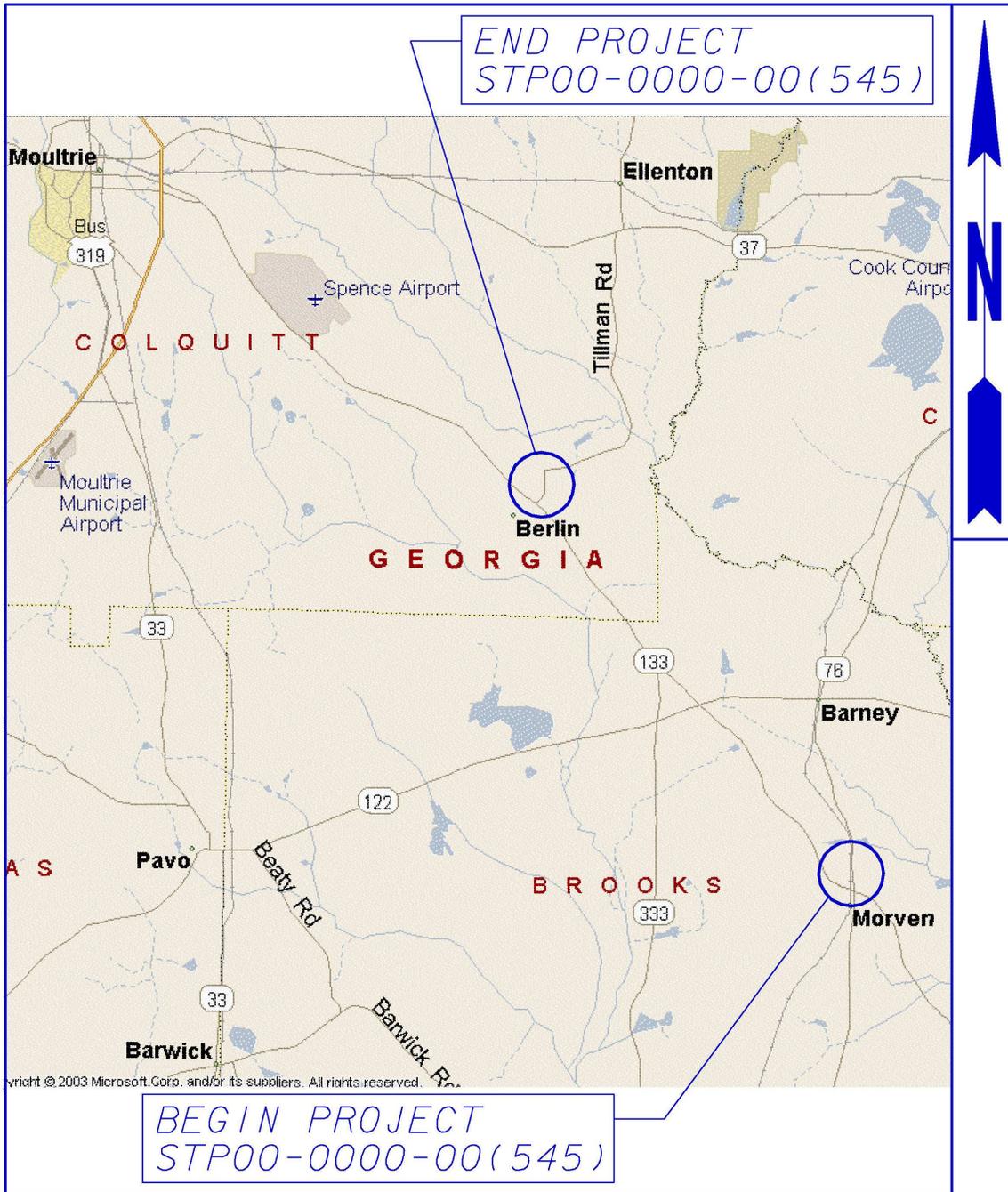
Concur: \_\_\_\_\_

  
Director of Engineering

Approve: \_\_\_\_\_

  
Chief Engineer

  
Date



# LOCATION MAP

**Project:** STP00-0000-00(545) **PI No.:** 0000545  
**Description:** Widening of SR 133 from Old Quitman Adel Road (CR 1)  
to Old Berlin Road (CR 256)

**ATTACHMENT 2**

**COST ESTIMATE**

**COST ESTIMATE SUMMARY**

<b>STP00-0000-00(545)</b>	
<b>Base Construction Cost:</b>	<b>\$27,575,635</b>
Engineering and Inspection @ 5%:	\$1,378,782
Construction Contingency @ 4%:	\$1,103,025
Fuel Adjustment:	\$3,132,813
Liquid AC Adjustment	\$6,004,057
<b>Total Construction Cost:</b>	<b>\$39,194,312</b>
Right of Way:	\$2,083,718
Reimbursable Utilities:	\$5,573,035
Mitigation Costs	\$338,834
<b>Grand Total Project Cost:</b>	<b>\$47,189,899</b>

**Estimate Report for file "STP00-0000-00(545) PI # 0000545"**

<b>Section EARTHWORK</b>					
Item Number	Quantity	Units	Unit Price	Item Description	Cost
205-0001	155140	CY	5.61	UNCLASS EXCAV	870335.4
206-0002	159660	CY	6.31	BORROW EXCAV, INCL MATL	1007454.6
<b>Section Sub Total:</b>					<b>\$1,877,790.00</b>

<b>Section DRAINAGE</b>					
Item Number	Quantity	Units	Unit Price	Item Description	Cost
441-0206	14150	SY	44.28	PLAIN CONC DITCH PAVING, 6 IN	626562.0
441-3999	2070	LF	16.22	CONCRETE V GUTTER	33575.39
441-6740	36870	LF	15.62	CONC CURB & GUTTER, 8 IN X 30 IN, TP 7	575909.4
500-3101	1640	CY	528.99	CLASS A CONCRETE	867543.6
511-1000	185320	LB	0.91	BAR REINF STEEL	168641.2
550-1180	16700	LF	41.02	STORM DRAIN PIPE, 18 IN, H 1-10	685034.0
550-1240	1400	LF	51.4	STORM DRAIN PIPE, 24 IN, H 1-10	71960.0
550-1300	800	LF	68.89	STORM DRAIN PIPE, 30 IN, H 1-10	55112.0
550-1360	1400	LF	85.52	STORM DRAIN PIPE, 36 IN, H 1-10	119728.0
550-1480	200	LF	126.41	STORM DRAIN PIPE, 48 IN, H 1-10	25282.0
550-2180	5036	LF	28.99	SIDE DRAIN PIPE, 18 IN, H 1-10	145993.63
550-2240	564	LF	36.94	SIDE DRAIN PIPE, 24 IN, H 1-10	20834.16
550-3318	4	EA	586.23	SAFETY END SECTION 18 IN, STORM DRAIN, 4:1 SLOPE	2344.92
550-3324	4	EA	959.27	SAFETY END SECTION 24 IN, STORM DRAIN, 4:1 SLOPE	3837.08
550-3418	115	EA	626.89	SAFETY END SECTION 18 IN, SIDE DRAIN, 4:1 SLOPE	72092.34
550-3618	115	EA	638.03	SAFETY END SECTION 18 IN, SIDE DRAIN, 6:1 SLOPE	73373.45
550-4218	135	EA	666.24	FLARED END SECTION 18 IN, STORM DRAIN	89942.4
550-4224	8	EA	786.33	FLARED END SECTION 24 IN, STORM DRAIN	6290.64
550-4230	8	EA	943.99	FLARED END SECTION 30 IN, STORM DRAIN	7551.92
550-4236	8	EA	1241.13	FLARED END SECTION 36 IN, STORM DRAIN	9929.04
603-7000	2000	SY	5.16	PLASTIC FILTER FABRIC	10320.0
668-1100	33	EA	2277.92	CATCH BASIN, GP 1	75171.36
668-2100	87	EA	4470.97	DROP INLET, GP 1	388974.39
668-4300	12	EA	2586.45	STORM SEWER MANHOLE, TP 1	31037.39
<b>Section Sub Total:</b>					<b>\$4,167,040.35</b>

<b>Section TEMPORARY EROSION CONTROL</b>					
Item Number	Quantity	Units	Unit Price	Item Description	Cost
163-0232	36	AC	571.97	TEMPORARY GRASSING	20590.92
163-0240	1950	TN	183.84	MULCH	358488.0
163-0300	10	EA	2872.37	CONSTRUCTION EXIT	28723.69
163-0501	1	EA	823.9	CONSTRUCT AND REMOVE SILT CONTROL GATE, TP 1	823.9
163-0502	2	EA	759.26	CONSTRUCT AND REMOVE SILT CONTROL GATE, TP 2	1518.52
163-0503	13	EA	549.25	CONSTRUCT AND REMOVE SILT CONTROL GATE, TP 3	7140.25
163-0522	880	EA	88.74	CONSTRUCT AND REMOVE TEMPORARY DITCH CHECKS - TYPE A SILT FENCE	78091.2
163-0530	6200	LF	4.28	CONSTRUCT AND REMOVE BALED STRAW EROSION CHECK	26536.0
163-0531	25	EA	8070.58	CONSTRUCT AND REMOVE SEDIMENT BASIN, TP 1, STA NO -	201764.5
163-0550	120	EA	308.76	CONSTRUCT AND REMOVE INLET SEDIMENT TRAP	37051.2
165-0010	8800	LF	0.93	MAINTENANCE OF TEMPORARY SILT FENCE, TP A	8184.0
165-0030	13500	LF	1.83	MAINTENANCE OF TEMPORARY SILT FENCE, TP C	24705.0
165-0040	880	EA	79.16	MAINTENANCE OF EROSION CONTROL CHECKDAMS/DITCH CHECKS	69660.8
165-0060	50	EA	1213.72	MAINTENANCE OF TEMPORARY SEDIMENT BASIN, STA NO -	60686.0

165-0070	3100	LF	1.8	MAINTENANCE OF BALED STRAW EROSION CHECK	5580.0
165-0085	1	EA	190.59	MAINTENANCE OF SILT CONTROL GATE, TP 1	190.59
165-0086	2	EA	70.37	MAINTENANCE OF SILT CONTROL GATE, TP 2	140.74
165-0087	13	EA	178.48	MAINTENANCE OF SILT CONTROL GATE, TP 3	2320.24
165-0101	10	EA	660.01	MAINTENANCE OF CONSTRUCTION EXIT	6600.1
165-0105	120	EA	110.84	MAINTENANCE OF INLET SEDIMENT TRAP	13300.80
167-1000	2	EA	1349.35	WATER QUALITY MONITORING AND SAMPLING	2698.7
167-1500	24	MO	1035.76	WATER QUALITY INSPECTIONS	24858.23
171-0010	17600	LF	1.8	TEMPORARY SILT FENCE, TYPE A	31680.0
171-0030	27000	LF	3.84	TEMPORARY SILT FENCE, TYPE C	103680.0
643-8200	7200	LF	3.13	BARRIER FENCE (ORANGE), 4 FT	22536.0
<b>Section Sub Total:</b>					<b>\$1,137,549.40</b>

**Section PERMANENT EROSION CONTROL**

Item Number	Quantity	Units	Unit Price	Item Description	Cost
603-2024	2000	SY	41.78	STN DUMPED RIP RAP, TP 1, 24 IN	83560.0
700-6910	72	AC	906.91	PERMANENT GRASSING	65297.52
700-7000	144	TN	58.05	AGRICULTURAL LIME	8359.19
700-7010	180	GL	19.3	LIQUID LIME	3474.0
700-8000	73	TN	348.14	FERTILIZER MIXED GRADE	25414.21
710-9000	15127	SY	3.65	PERMANENT SOIL REINFORCING MAT	55213.54
715-2100	50424	SY	2.5	BITUMINOUS TREATED ROVING, SLOPES	126060.0
716-2000	66500	SY	1.15	EROSION CONTROL MATS, SLOPES	76475.0
<b>Section Sub Total:</b>					<b>\$443,853.49</b>

**Section PERMANENT ROADWAY**

Item Number	Quantity	Units	Unit Price	Item Description	Cost
212-1000	2000	CY	14.25	GRANULAR EMBANKMENT, INCL MATL & HAUL	28500.0
310-1101	218300	TN	17.17	GR AGGR BASE CRS, INCL MATL	3748211.00
318-3000	16350	TN	17.21	AGGR SURF CRS	281383.5
402-1812	42200	TN	58.91	RECYCLED ASPH CONC LEVELING, INCL BITUM MATL & H LIME	2486002.0
402-3121	69270	TN	61.84	RECYCLED ASPH CONC 25 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME	4283656.8
402-3130	38950	TN	58.94	RECYCLED ASPH CONC 12.5 MM SUPERPAVE, GP 2 ONLY, INCL BITUM MATL & H LIME	2295713.0
402-3190	49380	TN	63.63	RECYCLED ASPH CONC 19 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME	3142049.4
413-1000	32200	GL	1.84	BITUM TACK COAT	59248.0
441-0748	7400	SY	54.89	CONCRETE MEDIAN, 6 IN	406186.0
446-1100	74800	LF	2.79	PVMT REINF FABRIC STRIPS, TP 2, 18 INCH WIDTH	208692.0
456-2012	19	GLM	1125.15	INDENTATION RUMBLE STRIPS - GROUND-IN-PLACE (CONTINUOUS)	21377.85
<b>Section Sub Total:</b>					<b>\$16,961,019.55</b>

**Section SIGNING**

Item Number	Quantity	Units	Unit Price	Item Description	Cost
632-0003	2	EA	15311.11	CHANGEABLE MESSAGE SIGN, PORTABLE, TYPE 3	30622.22
636-1020	1670	SF	14.83	HIGHWAY SIGNS, TP 1 MATL, REFL SHEETING, TP 3	24766.1
636-2010	300	LF	7.19	GALV STEEL POSTS, TYP1	2157.0
636-2070	2760	LF	8.75	GALV STEEL POSTS, TP 7	24150.0
636-5100	20	EA	177.13	MILEPOST SIGNS	3542.6
<b>Section Sub Total:</b>					<b>\$85,237.92</b>

**Section STRIPING**

Item Number	Quantity	Units	Unit Price	Item Description	Cost
653-0120	126	EA	73.82	THERMOPLASTIC PVMT MARKING, ARROW, TP 2	9301.32
653-0170	258	EA	85.04	THERMOPLASTIC PVMT MARKING, ARROW, TP 7	21940.32
653-1704	300	LF	5.02	THERMOPLASTIC SOLID TRAF STRIPE, 24 IN, WHITE	1505.99
653-2501	20	LM	1354.1	THERMOPLASTIC SOLID TRAF STRIPE, 5 IN, WHITE	27082.0
653-2502	20	LM	1377.67	THERMOPLASTIC SOLID TRAF STRIPE, 5 IN, YELLOW	27553.4
653-4501	22	GLM	892.14	THERMOPLASTIC SKIP TRAF STRIPE, 5 IN, WHITE	19627.07
653-4502	1	GLM	785.82	THERMOPLASTIC SKIP TRAF STRIPE, 5 IN, YELLOW	785.82
653-6004	36810	SY	2.79	THERMOPLASTIC TRAF STRIPING, WHITE	102699.9
653-6006	1040	SY	3.21	THERMOPLASTIC TRAF STRIPING, YELLOW	3338.4
654-1001	500	EA	3.1	RAISED PVMT MARKERS TP 1	1550.0
654-1003	500	EA	3.76	RAISED PVMT MARKERS TP 3	1880.0
<b>Section Sub Total:</b>					<b>\$217,264.24</b>

**Section MISCELLANEOUS**

Item Number	Quantity	Units	Unit Price	Item Description	Cost
620-0100	600	LF	30.45	TEMPORARY BARRIER, METHOD NO. 1	18270.0
634-1200	277	EA	102.52	RIGHT OF WAY MARKERS	28398.03
641-1200	2700	LF	18.54	GUARDRAIL, TP W	50058.0
641-5001	4	EA	617.35	GUARDRAIL ANCHORAGE, TP 1	2469.4
641-5012	4	EA	1871.8	GUARDRAIL ANCHORAGE, TP 12	7487.2
<b>Section Sub Total:</b>					<b>\$106,682.64</b>

**Section LUMP ITEMS**

Item Number	Quantity	Units	Unit Price	Item Description	Cost
150-1000	1	LS	1500000.0	TRAFFIC CONTROL - STP-000-00(545)	1500000.0
153-1300	1	EA	75272.56	FIELD ENGINEERS OFFICE TP 3	75272.56
201-1500	1	LS	1000000.0	CLEARING & GRUBBING - STP-000-00(545)	1000000.0
610-9099	2	LS	1962.72	REM WINGWALLS & PARAPETS, STA -	3925.44
<b>Section Sub Total:</b>					<b>\$2,579,198.00</b>

**Total Estimated Cost: \$27,575,635.59**

**ATTACHMENT 3**

**UTILITY COST ESTIMATE**

**DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA**

**INTERDEPARTMENT CORRESPONDENCE**

**FILE**

Project No: **STP00-0000-00(545)**  
County **BROOKS/COLQUITT**

OFFICE: **Tifton**  
DATE: **December 3, 2009**

P.I. # **0000545**

Description: **SR 133 FM CR 1/OLD QUITMAN ADEL RD/BROOKS TO CR 256/COLQUITT**

*rw*  
**FROM** Tim Warren, P.E., District Utilities Engineer  
**TO** Douglas Fadool, Project Manager

**SUBJECT** **UTILITY COST ESTIMATE**

A review of utilities located on the above referenced project has been conducted based on the latest available plans.. Listed below is a breakdown of the anticipated reimbursable and non-reimbursable cost.

<u>Utility Owner</u>	<u>Reimbursable</u>	<u>Non-Reimbursable</u>	<u>Estimate Based on</u>
Colquitt Emc	\$1,853,000.00	\$1,288,000.00	Site Visit / Available Drawings
Georgia Transmission Corp.	\$1,858,000.00	\$0.00	Site Visit / Available Drawings
Billy C. Gay - Private Water Line	\$0.00	\$6,000.00	Site Visit / Available Drawings
Megacable, Llc *	\$0.00	\$411,765.00	Site Visit / Available Drawings
Windstream Communications	\$0.00	\$396,350.00	Site Visit / Available Drawings
SOUTHERN NATURAL GAS CO	\$41,000.00	\$210,000.00	Site Visit / Available Drawings
City Of Morven **	\$0.00	\$6,000.00	Site Visit / Available Drawings
<b>Total</b>	<b>\$3,752,000.00</b>	<b>\$2,318,115.00</b>	

**30% Utility Contingency for all relocation cost \$1,821,035.00**

**\*\* Indicates Potential Utility Aid Request from Local Gov't**

**\* Indicates that this Local Cable TV has already said they do not have money to relocate.**

If additional information is needed, please contact me or Bill Cooper, Assistant District Utilities Engineer at (229) 386-3288.

*bc*  
TW:BC:KC:ec

c: Jeff Baker, P.E., State Utilities Engineer  
Brent Thomas, District Preconstruction Engineer  
Angela Whitworth, State Financial Management Administrator

**ATTACHMENT 4**

**PRELIMINARY RIGHT OF WAY COST ESTIMATE**

## PRELIMINARY RIGHT OF WAY COST ESTIMATE

**Date:** 3/18/2010  
**Project:** SR 133 Widening  
**Project No:** STP00-0000-00(545)  
**Existing/Required R/Varies:** \_\_\_\_\_ **P.I. Number:** 0000545  
**Project Termini:** CR 1/Old Quitman Adel Rd. to CR 256/Old Berlin Rd. **No. Parcels:** 95

**Project Description:** SR 133 Widening from CR 1/Old Quitman Adel Rd. to CR 256/Old Berlin Rd.

**Land: BROOKS COUNTY**

Commercial Land	0 acres @	\$100,000.00 /AC	\$	\$0.00
Easements	0 acres @	\$0.00 /AC	\$	Unknown
Residential Land	45.835 acres @	\$10,000.00 /AC	\$	\$458,350.00
Easements	0 acres @	\$0.00 /AC	\$	Unknown
Special Use Land	0 acres @	\$0.00 /AC	\$	Unknown
Easements	0 acres @	\$0.00 /AC	\$	Unknown

**Land: COLQUITT COUNTY**

Commercial Land	0 acres @	\$100,000.00 /AC	\$	\$0.00
Easements	0 acres @	\$0.00 /AC	\$	Unknown
Residential Land	11.75 acres @	\$15,000.00 /AC	\$	\$176,250.00
Easements	0 acres @	\$0.00 /AC	\$	Unknown
Special Use Land	0 acres @	\$0.00 /AC	\$	Unknown
Easements	0 acres @	\$0.00 /AC	\$	Unknown

**TOTAL** \$ 634,600.00

**Improvements:** Unknown \$ -

**Relocations:**

There are no commercial relocations within the project limits.	\$	0.00
Residential 5	\$	205,609.00
Possible Misc. Moves	\$	0.00

**TOTAL** \$ 205,609.00

**Damages:**

Proximity	\$	Unknown
Consequential	\$	Unknown
Cost to Cure	\$	Unknown

**TOTAL** \$ 0.00

<b>SUB-TOTAL:</b>	Net Cost	\$	840,209.00
	Scheduling Contingency 55%	\$	462,114.95
	Adm/Court Cost 60%	\$	781,394.37

**TOTAL COST \$2,083,718.32**

Prepared By: Mario V. Macrina, P.E.  
Wolverton & Associates, Inc.

Reviewed/Approved: \_\_\_\_\_  
Howard P. Copeland  
R/W Administrator

Note: Accuracy of estimate is the sole responsibility of the preparer  
 Note: The Market Appreciation (40%) is not included in this Preliminary Cost Estimate

**ATTACHMENT 5**  
**FUEL ADJUSTMENT**

P.I. Number 0000545

County Brooks/Colquitt

Project Number STP00-0000-00(545)

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

ENTER FPL DIESEL	2.814
ENTER FPM DIESEL	6.332

ENTER FPL UNLEADED	2.647
ENTER FPM UNLEADED	5.95575

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

<b>INCREASE ADJUSTMENT</b>
<b>125.00%</b>

<b>INCREASE ADJUSTMENT</b>
<b>125.00%</b>

ROADWAY ITEMS	QUANTITY	DIESEL FACTOR	GALLONS DIESEL	UNLEADED FACTOR	GALLONS UNLEADED	REMARKS
Excavations paid as specified by Sections 205 (CUBIC YARD)	155140.000	0.29	44990.60	0.15	23271.00	
Excavations paid as specified by Sections 206 (CUBIC YARD)	159660.000	0.29	46301.40	0.15	23949.00	
GAB paid as specified by the ton under Section 310 (TON)	218300.000	0.29	63307.00	0.24	52392.00	
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)	199800.000	2.90	579420.00	0.71	141858.00	
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	1640.00	448.66	735.8024	8.00	5886.42	1.50	1103.70	Class A Ret Wall
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 <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>739905.42</b>	<b>SUM QF UNLEADED=</b>	<b>242573.70</b>
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<b>DIESEL PRICE ADJUSTMENT(\$)</b>	<b>\$2,394,407.93</b>
<b>UNLEADED PRICE ADJUSTMENT(\$)</b>	<b>\$738,406.48</b>



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

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

<b>125.00%</b>	<b>INCREASE ADJUSTMENT</b>
----------------	----------------------------

Use this side for Asphalt Emulsion Only		
L.I.N.	TYPE	ASPHALT EMULSION (GALLONS)
TMT =		<input style="width: 100px;" type="text"/>
REMARKS:		

Use this side for Asphalt Cement Only		
L.I.N.	TYPE	TACK (GALLONS)
TMT =		<input style="width: 100px;" type="text"/>
REMARKS:		

<b>MONTHLY PRICE ADJUSTMENT(\$)</b>	
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## ADJUSTMENT SUMMARY

FUEL PRICE ADJUSTMENT ( <i>ENGLISH 125% MAX</i> )	
DIESEL PRICE ADJUSTMENT(\$)	<u>\$2,394,407.93</u>
UNLEADED PRICE ADJUSTMENT(\$)	<u>\$738,406.48</u>
ASPHALT CEMENT PRICE ADJUSTMENT ( <i>BITUMINOUS TACK COAT 125% MAX</i> )	<u>\$81,985.56</u>
400 / 402 ASPHALT CEMENT PRICE ADJUSTMENT <i>125% MAX</i>	<u>\$5,922,072.00</u>
ASPHALT CEMENT PRICE ADJUSTMENT FOR BITUMINOUS TACK COAT( <i>Surface Treatment 125% MAX</i> )	

REMARKS:	
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<b>TOTAL ADJUSTMENTS</b>	<b>\$9,136,871.97</b>
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**ATTACHMENT 6**

**ENVIRONMENTAL MITIGATION COST ESTIMATE**

# PRELIMINARY MITIGATION COST ESTIMATE

**Date:** 4/6/2010  
**Project:** SR 133 Widening  
**Project No:** STP00-0000-00(545)  
**P.I. Number** 0000545  
**Project Termini:** CR 1/Old Quitman Adel Rd. to CR 256/Old Berlin Rd.  
**Project Description:** SR 133 Widening from CR 1/Old Quitman Adel Rd. to CR 256/Old Berlin Rd.

Mitigation Cost; assuming that a Wetland Credit cost of \$7,000 per credit and a Stream Credit cost \$100 per credit

Project No.	Required Stream Credits	Cost of Credit	
STP00-0000-00(545)	2949.30	\$45.00	<b>\$132,718.50</b>
	<b>Total Stream Credits</b>	2949.30	
		<b>Sub-Total</b>	<b>\$132,718.50</b>

Project No.	Required Wetland Credits	Cost of Credit	
STP00-0000-00(545)	58.89	\$3,500.00	<b>\$206,115.00</b>
	<b>Total Wetland Credits</b>	58.89	
		<b>Sub-Total</b>	<b>\$206,115.00</b>
		<b>Total</b>	<b>\$338,833.50</b>

**ATTACHMENT 7**

**TYPICAL SECTIONS**



**ATTACHMENT 8**

**VALUE ENGINEERING IMPLEMENTATION LETTER**

**DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA**

**INTERDEPARTMENT CORRESPONDENCE**

**FILE:** STP-0000-00(543), (544), (545), & (546)    **OFFICE:** Engineering Services  
STP-032-2(28) Brooks/Colquitt  
P.I. Nos. 0000543, 0000544, 0000545, 0000546, & 431780  
S.R. 133 Widening/Reconstruction

**DATE:** December 20, 2006

**FROM:**  Brian K. Summers, PE, State Project Review Engineer

**TO:** Babs Abubakari, PE, State Consultant Design and Program Delivery Engineer

**SUBJECT: IMPLEMENTATION OF VALUE ENGINEERING STUDY  
ALTERNATIVES**

Recommendations for implementation of Value Engineering Study Alternatives are indicated in the table below. Incorporate the VE alternatives recommended for implementation to the extent reasonable in the design of the project.

ALT #	Description	Potential Savings/LCC	Implement	Comments
<b>STP-0000-00(543)</b>				
543-1	Construct only the first 3.7 miles through Troupville	\$8,272,625	No	Does not satisfy the Need and Purpose of the project.
543-3/4/5	Selectively eliminate median openings, left turn lanes and U-turn bump outs	\$96,479	Yes	This will be done.
543-6	Eliminate sidewalks (concrete only)	\$671,246	No	Does not satisfy current GDOT Policy.
543-7	Use a grass median in lieu of a concrete median	\$1,060,722	No	This project does not have many sections where the median width is consistently over 8 feet which is when grass medians could be used.
543-8	Minimize the extent of side road improvements	Design Suggestion	Yes	This will be done.
543-9	Use a five-lane section through Troupville from Augusta Drive to Fellowship Home Lane	\$1,652,706	Yes	The traffic on this corridor warrants a five lane section per current GDOT Policy.

**STP-0000-00(543), (544), (545), & (546) & STP-032-2(28) Brooks/Colquitt  
Implementation of Value Engineering Study Alternatives  
Page 2.**

ALT #	Description	Potential Savings/LCC	Implement	Comments
<b>STP-0000-00(544)</b>				
544-1	Construct only 1.45 miles of S.R. 133 from Lawson Pond Road to Old Quitman Road through the town of Morven	\$11,551,485	No	Does not satisfy the Need and Purpose of the project.
544-3/4/5	Selectively eliminate median openings, left turn lanes and U-turn bump outs	\$48,080	Yes	This will be done.
544-7	Use a five-lane section through Morven from Old Quitman Road to Lawson Pond Road	\$900,062	Yes	The traffic on this corridor warrants a five lane section per current GDOT Policy.
544-8	Cul-de-sac Hitch Road and eliminate intersection with S.R. 133	-\$26,648 (Cost Increase)	Yes	This will be done.
544-9	Use arch span structures in lieu of box culverts	\$210,021	Yes	This should be considered depending on survey of existing geotechnical conditions and costs.
544-10	Complete mainline railroad crossing prior to closing other city railroad crossings	Design Suggestion	Yes	This will be done.
<b>STP-0000-00(545)</b>				
545-1	Improve only two intersections: S.R. 133 @ S.R. 333 and S.R. 133 @ S.R. 26	\$32,898,183	No	Does not satisfy the Need and Purpose of the project.
545-2/3/4	Selectively eliminate median openings, left turn lanes and U-turn bump outs	Proposed \$310,031 Actual \$155,016	Yes	The median opening 1,450 feet north of Rock Hill Road can not be eliminated. The other one can be eliminated.
545-6	Use arch span structures in lieu of multi-cell box culverts	\$37,797	Yes	This should be considered depending on survey of existing geotechnical conditions and costs.
545-7	Use a 32 foot median section in lieu of a 44 foot median section to minimize wetland impacts near Berlin	\$40,623	No	Does not satisfy "GODT Policy Regarding Median Width Reduction for Minimization of Impacts to Wetlands" dated 2/5/98.
545-8	Use a grass median in lieu of a concrete median	\$1,557,131	Yes	This will be done.

**STP-0000-00(543), (544), (545), & (546) & STP-032-2(28) Brooks/Colquitt  
Implementation of Value Engineering Study Alternatives  
Page 3.**

ALT #	Description	Potential Savings/LCC	Implement	Comments
<b>STP-0000-00(546)</b>				
546-1	Construct S.R. 133 through Berlin and the Eastern portion of Moultrie only	\$23,499,437	No	Does not satisfy the Need and Purpose of the project.
546-2/3/4	Selectively eliminate median openings, left turn lanes and U-turn bump outs	Proposed -\$32,301 (Cost Increase) Actual \$139,585	Yes	Actual cost savings are based on using a grass median in lieu of a concrete median. Four of the five median openings will be eliminated. The median opening at Sta. 360+00 can not be eliminated.
546-5	Eliminate sidewalks (concrete only)	\$169,915	No	Does not satisfy current GDOT Policy.
546-6	Use a grass median in lieu of concrete median	\$4,503,449	Yes	This will be done.
546-8	Use a five-lane section through the City of Berlin and Eastern Moultrie	\$82,258	Yes	This will be done.
546-9	Use arch span structures in lieu of multi-cell box culverts	-\$235,910 (Cost Increase)	No	Cost increase does not appear to justify using arch span structures.
546-10	Signalize South Vanderberg Drive entrance to airport (Spence Field)	-\$200,565 (Cost Increase)	No	Does not appear to meet Traffic Signal warrants.
<b>STP-032-2(28)</b>				
28-2/3	Selectively eliminate median openings, left turn lanes and U-turn bump outs	-\$2,426 (Cost Increase)	Yes	This will be done.
28-4	Eliminate sidewalks (concrete only)	\$1,114,135	No	Does not satisfy current GDOT Policy.
28-5	Use a grass median in lieu of concrete median	\$1,410,923	No	This project does not have many sections where the median width is consistently over 8 feet which is when grass medians could be used.
28-7	Use a five-lane section through East Moultrie from South Vanderberg Drive to the East Moultrie Bypass (S.R. 35)	\$954,136	Yes	This will be done.

**STP-0000-00(543), (544), (545), & (546) & STP-032-2(28) Brooks/Colquitt  
Implementation of Value Engineering Study Alternatives  
Page 4.**

ALT #	Description	Potential Savings/LCC	Implement	Comments
<b>STP-032-2(28) - continued</b>				
28-8	Provide new intersection at Quail Run and Sanderson Farms Chicken Plant and eliminate Old Moultrie-Adel Road/S.R. 133 intersection	-\$464,032 (Cost Increase)	No	This work will be done under another separate project.

A meeting was held on December 20, 2006 to discuss the above recommendations. David Norwood of Consultant Design and Ron Wishon, Lisa Myers and Brian Summers of Engineering Services were in attendance.

The results above reflect the consensus of those in attendance and those who provided input.

Approved:  Date: 12/20/06  
David E. Studstill, Jr., P. E., Chief Engineer

BKS/REW  
Attachments

- c: Gus Shanine
- James Magnus
- David Norwood
- Karyn Matthews
- Jack Muirhead
- Alexis John
- Nabil Raad
- Lisa Myers

**ATTACHMENT 9**

**APPROVED TRAFFIC DATA**

# Department of Transportation State of Georgia

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## INTERDEPARTMENT CORRESPONDENCE

**FILE** STP00-0000-00(545), Brooke County                      **OFFICE** Planning  
P.I. # 0000545  
**DATE** December 14, 2009

**FROM** Angela T. Alexander, State Transp. Planning Administrator

**TO** Bobby Hilliard, P.E., State Program Delivery and Consultant Design  
Engineer  
**Attention:** Douglas Fadool

**SUBJECT** Reviewed Design Traffic for S.R. 133 from C.R. 1/Old Quitman Adel  
Rd/Brooks to C.R. 256/Colquitt.

As per your request, we reviewed the consultant's Design Traffic for the  
above project. These are our findings:

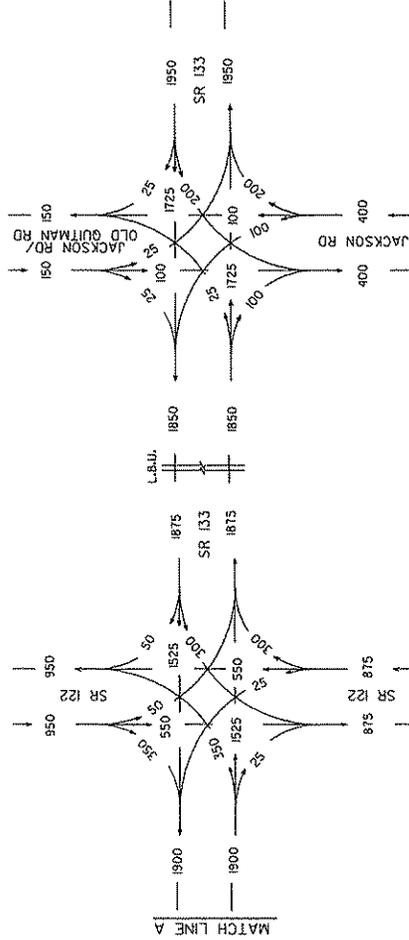
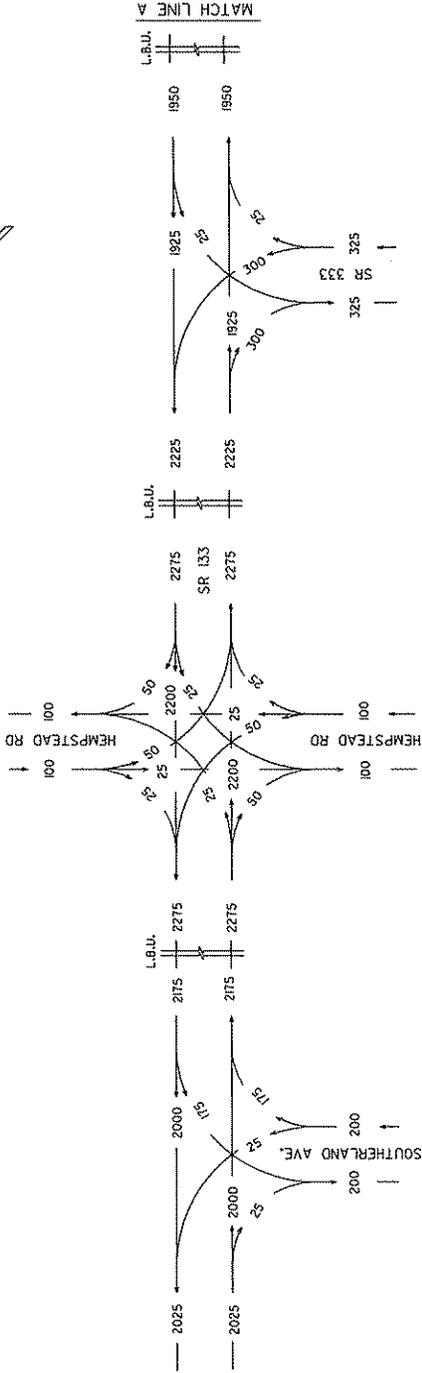
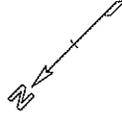
The Design Traffic is approved. If you have any questions concerning this  
information please contact Abby Ebodaghe at (404) 631-1923.

ATA/AFE

# BROOKS / COLQUITT COUNTY



WOLVERTON & ASSOCIATES, INC.  
6745 SUGAR CREEK PARKWAY  
DUBLIN, GA 30097  
(770) 447-8999



BUILD CONDITIONS

STP00-0000-001545)  
P.L.# 0000545  
BROOKS/COLQUITT CO.  
SR 133  
FM OLD QUITMAN RD  
TO OLD BERLIN RD.  
2008 ADT = 000  
24 HR, T = 25%  
S.L. = 7%  
COMB. = 18%

# BROOKS / COLQUITT COUNTY



WOLVERTON & ASSOCIATES, INC.  
 6745 SUGARLOAF PARKWAY  
 SUITE 100, 0097  
 DULLES, VA 20146  
 (703) 447-8997

