

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

REVISED PROJECT CONCEPT REPORT

Project Number: STP00-0000-00(546)

County: Colquitt

P. I. Number: 0000546

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:

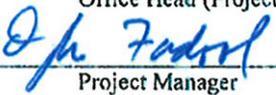
DATE 4/13/10

DATE 4/14/10

DATE 4-14-10


Wolverton & Associates, Inc.

Office Head (Project Manager's Office)

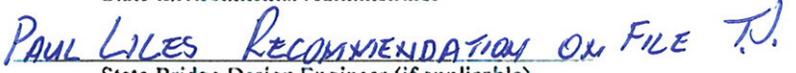

Project Manager

Recommendation for approval:

DATE 4/19/10

DATE 4/19/10


State Environmental Administrator


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 4/20/10


State Transportation Planning Administrator

REVISED PROJECT CONCEPT REPORT

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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. 0000546 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 SR 133 between Albany and Valdosta. More specifically, there are 5 projects to widen SR133 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 SR 133 near CR 276/Troupeville Road in Brooks County and the northern terminus of these projects will tie at the SR 35/East Moultrie Bypass in Colquitt County.

Project Location: STP00-0000-00(546) in Colquitt County is proposed to improve 7.86 miles of SR 133 from Old Berlin Road/ CR 256 (Colquitt County Mile Post 2.19), where it ties to Project STP00-0000-00(545), to Hawthorne Road/ CR 388 (Colquitt County Mile Post 10.05) where it ties to Project STP00-0032-02(028). Improvements consist of widening the existing two-lane SR 133 to a four-lane roadway with turn lanes as needed.

Description of the approved concept: Project P.I. 0000546 proposes a 24' raised median from Old Berlin Road/ C.R. 256 to Cannon Road that transitions to a 20' raised median to approximately 1700' north of Langford Street. The median then transitions back to a 24' raised median and is maintained to Edmondson Road and then transitions back down to a 20' raised median to Hawthorne Road/ C.R. 388. 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 from Old Berlin Road to Culbertson Road/C.R. 291

Urban Principal Arterial from Culbertson Road/C.R. 291 to Hawthorne Road/C.R. 388

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

State Route Number(s): SR 133

Traffic (AADT) as shown in the approved concept:

Base Year: (2010) 5,450

Design Year: (2030) 8,125

Updated traffic data (AADT):

Base Year: (2016) 7,050

Design Year: (2036) 12,300

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(546)

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Approved features to be revised: A Value Engineering Study held in September 2006 and implemented in December 2006 recommended that the 20' raised concrete median section be revised to a five lane flush median section through the City of Berlin and Eastern Moultrie.

The 16' outside urban shoulder was reduced to a 10' rural shoulder to minimize right-of-way and environmental impacts and reduce construction and right-of-way acquisition costs.

Proposed features: The 20' raised concrete median was revised to a 14' flush two-way center turn lane through the City of Berlin and Eastern Moultrie. The 16' outside urban shoulder width was reduced to a 10' rural shoulder.

Reason for Change: The median type of the typical section was revised due to the implementation of a VE recommendation.

The 16' urban shoulder was revised to a 10' rural shoulder 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 roadway median type of the typical section was revised from a 20' raised concrete median to a 14' flush two-way center turn lane, and the 16' urban shoulder was reduced to a 10' rural shoulder.

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

Environmental Responsibilities: Consultant, GDOT

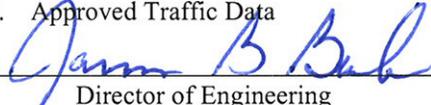
Updated cost estimates:

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:  5/2/10
Chief Engineer Date

ATTACHMENT 2

COST ESTIMATE

COST ESTIMATE SUMMARY

STP00-0000-00(546)	
Base Construction Cost:	\$24,735,507
Engineering and Inspection @ 5%:	\$1,236,775
Construction Contingency @ 4%:	\$989,420
Fuel Adjustment:	\$2,818,820
Liquid AC Adjustment	\$5,188,904
Total Construction Cost:	\$34,969,427
Right of Way:	\$1,871,410
Reimbursable Utilities:	\$1,536,363
Mitigation Costs	\$146,136
Grand Total Project Cost:	\$38,523,336

Estimate Report for file "STP00-0000-00(546) PI # 0000546"

Section EARTHWORK					
Item Number	Quantity	Units	Unit Price	Item Description	Cost
205-0001	114930	CY	5.61	UNCLASS EXCAV	644757.3
206-0002	217540	CY	6.31	BORROW EXCAV, INCL MATL	1372677.4
Section Sub Total:					\$2,017,434.70

Section DRAINAGE					
Item Number	Quantity	Units	Unit Price	Item Description	Cost
441-0303	1	EA	2243.97	CONC SPILLWAY, TP 3	2243.97
441-3999	2320	LF	23.68	CONCRETE V GUTTER	54937.6
441-4020	60	SY	41.31	CONC VALLEY GUTTER, 6 IN	2478.60
441-5002	260	LF	21.2	CONCRETE HEADER CURB, 6 IN, TP 2	5512.0
441-6222	970	LF	19.1	CONC CURB & GUTTER, 8 IN X 30 IN, TP 2	18527.0
500-3101	850	CY	448.66	CLASS A CONCRETE	381361.0
511-1000	103960	LB	0.92	BAR REINF STEEL	95643.2
550-1180	11210	LF	41.02	STORM DRAIN PIPE, 18 IN, H 1-10	459834.2
550-1240	1320	LF	50.46	STORM DRAIN PIPE, 24 IN, H 1-10	66607.2
550-1360	260	LF	85.24	STORM DRAIN PIPE, 36 IN, H 1-10	22162.39
550-1420	990	LF	110.02	STORM DRAIN PIPE, 42 IN, H 1-10	108919.8
550-2180	6990	LF	28.99	SIDE DRAIN PIPE, 18 IN, H 1-10	202640.09
550-2240	85	LF	34.66	SIDE DRAIN PIPE, 24 IN, H 1-10	2946.1
550-3318	97	EA	595.4	SAFETY END SECTION 18 IN, STORM DRAIN, 4:1 SLOPE	57753.79
550-3324	15	EA	965.09	SAFETY END SECTION 24 IN, STORM DRAIN, 4:1 SLOPE	14476.35
550-3336	4	EA	1993.33	SAFETY END SECTION 36 IN, STORM DRAIN, 4:1 SLOPE	7973.32
550-3418	95	EA	642.67	SAFETY END SECTION 18 IN, SIDE DRAIN, 4:1 SLOPE	61053.64
550-3618	95	EA	636.77	SAFETY END SECTION 18 IN, SIDE DRAIN, 6:1 SLOPE	60493.15
550-4218	7	EA	656.46	FLARED END SECTION 18 IN, STORM DRAIN	4595.22
550-4224	5	EA	772.69	FLARED END SECTION 24 IN, STORM DRAIN	3863.45
550-4242	5	EA	1564.04	FLARED END SECTION 42 IN, STORM DRAIN	7820.2
603-2182	950	SY	52.71	STN DUMPED RIP RAP, TP 3, 24 IN	50074.5
603-7000	950	SY	5.12	PLASTIC FILTER FABRIC	4864.0
610-9099	2	LS	1962.72	REM WINGWALLS & PARAPETS, STA -	3925.44
668-1100	83	EA	2277.92	CATCH BASIN, GP 1	189067.36
668-2100	10	EA	4470.97	DROP INLET, GP 1	44709.70
668-4300	13	EA	2562.98	STORM SEWER MANHOLE, TP 1	33318.74
Section Sub Total:					\$1,967,802.05

Section TEMPORARY EROSION CONTROL					
Item Number	Quantity	Units	Unit Price	Item Description	Cost
163-0232	35	AC	571.97	TEMPORARY GRASSING	20018.95
163-0240	1690	TN	183.84	MULCH	310689.6
163-0300	6	EA	2872.37	CONSTRUCTION EXIT	17234.22
163-0503	21	EA	549.25	CONSTRUCT AND REMOVE SILT CONTROL GATE, TP 3	11534.25
163-0522	811	EA	89.5	CONSTRUCT AND REMOVE TEMPORARY DITCH CHECKS - TYPE A SILT FENCE	72584.5
163-0530	15300	LF	4.26	CONSTRUCT AND REMOVE BALED STRAW EROSION CHECK	65178.0
163-0531	9	EA	8070.58	CONSTRUCT AND REMOVE SEDIMENT BASIN, TP 1, STA NO -	72635.22
163-0550	100	EA	308.76	CONSTRUCT AND REMOVE INLET SEDIMENT TRAP	30876.0
165-0010	8200	LF	0.93	MAINTENANCE OF TEMPORARY SILT FENCE, TP A	7626.0
165-0030	5050	LF	1.83	MAINTENANCE OF TEMPORARY SILT FENCE, TP C	9241.5
165-0040	811	EA	79.16	MAINTENANCE OF EROSION CONTROL CHECKDAMS/DITCH CHECKS	64198.75
165-0060	20	EA	1213.72	MAINTENANCE OF TEMPORARY SEDIMENT BASIN, STA NO -	24274.4

4/6/2010

Detail Estimate: Cost Estimate Report

165-0070	7650	LF	1.8	MAINTENANCE OF BALED STRAW EROSION CHECK	13770.0
165-0087	21	EA	178.48	MAINTENANCE OF SILT CONTROL GATE, TP 3	3748.08
165-0101	6	EA	660.01	MAINTENANCE OF CONSTRUCTION EXIT	3960.06
165-0105	100	EA	110.84	MAINTENANCE OF INLET SEDIMENT TRAP	11084.0
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	16300	LF	1.8	TEMPORARY SILT FENCE, TYPE A	29340.0
171-0030	10100	LF	3.84	TEMPORARY SILT FENCE, TYPE C	38784.0
643-8200	8000	LF	3.0	BARRIER FENCE (ORANGE), 4 FT	24000.0
Section Sub Total:					\$858,334.48

Section PERMANENT EROSION CONTROL

Item Number	Quantity	Units	Unit Price	Item Description	Cost
700-6910	69	AC	906.91	PERMANENT GRASSING	62576.79
700-7000	138	TN	58.05	AGRICULTURAL LIME	8010.9
700-7010	173	GL	19.3	LIQUID LIME	3338.9
700-8000	70	TN	348.14	FERTILIZER MIXED GRADE	24369.8
700-8100	3500	LB	2.04	FERTILIZER NITROGEN CONTENT	7140.0
716-2000	23300	SY	1.15	EROSION CONTROL MATS, SLOPES	26794.99
Section Sub Total:					\$132,231.39

Section PERMANENT ROADWAY

Item Number	Quantity	Units	Unit Price	Item Description	Cost
310-1101	211900	TN	22.02	GR AGGR BASE CRS, INCL MATL	4666038.0
318-3000	8210	TN	17.21	AGGR SURF CRS	141294.1
402-1812	23020	TN	58.91	RECYCLED ASPH CONC LEVELING, INCL BITUM MATL & H LIME	1356108.2
402-3121	63760	TN	61.84	RECYCLED ASPH CONC 25 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME	3942918.40
402-3130	36810	TN	58.94	RECYCLED ASPH CONC 12.5 MM SUPERPAVE, GP 2 ONLY, INCL BITUM MATL & H LIME	2169581.4
402-3190	48740	TN	63.26	RECYCLED ASPH CONC 19 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME	3083292.4
413-1000	31830	GL	1.84	BITUM TACK COAT	58567.20
441-0016	10620	SY	36.21	DRIVEWAY CONCRETE, 6 IN TK	384550.2
441-0748	33970	SY	38.26	CONCRETE MEDIAN, 6 IN	1299692.2
446-1100	65600	LF	2.71	PVMT REINF FABRIC STRIPS, TP 2, 18 INCH WIDTH	177776.0
456-2012	16	GLM	930.33	INDENTATION RUMBLE STRIPS - GROUND-IN-PLACE (CONTINUOUS)	14885.28
Section Sub Total:					\$17,294,703.38

Section SIGNING

Item Number	Quantity	Units	Unit Price	Item Description	Cost
632-0003	2	EA	15003.45	CHANGEABLE MESSAGE SIGN, PORTABLE, TYPE 3	30006.9
636-1029	1500	SF	18.64	HIGHWAY SIGNS, TP 2 MATL, REFL SHEETING, TP 3	27960.0
636-2010	240	LF	7.19	GALV STEEL POST, TP1	1725.60
636-2070	1200	LF	8.75	GALV STEEL POSTS, TP 7	10500.0
636-5100	16	EA	177.13	MILEPOST SIGNS	2834.08
Section Sub Total:					\$73,026.58

Section STRIPING

Item Number	Quantity	Units	Unit Price	Item Description	Cost
653-0120	134	EA	73.05	THERMOPLASTIC PVMT MARKING, ARROW, TP 2	9788.69
653-0170	146	EA	92.69	THERMOPLASTIC PVMT MARKING, ARROW, TP 7	13532.74

4/6/2010

Detail Estimate: Cost Estimate Report

653-1704	783	LF	5.02	THERMOPLASTIC SOLID TRAF STRIPE, 24 IN, WHITE	3930.66
653-2501	25	LM	1351.72	THERMOPLASTIC SOLID TRAF STRIPE, 5 IN, WHITE	33793.0
653-2502	17	LM	1373.96	THERMOPLASTIC SOLID TRAF STRIPE, 5 IN, YELLOW	23357.32
653-4501	18	GLM	894.49	THERMOPLASTIC SKIP TRAF STRIPE, 5 IN, WHITE	16100.82
653-4502	1	GLM	773.55	THERMOPLASTIC SKIP TRAF STRIPE, 5 IN, YELLOW	773.55
653-6004	410	SY	2.79	THERMOPLASTIC TRAF STRIPING, WHITE	1143.9
653-6006	280	SY	2.94	THERMOPLASTIC TRAF STRIPING, YELLOW	823.19
654-1001	500	EA	3.1	RAISED PVMT MARKERS TP 1	1550.0
Section Sub Total:					\$104,793.89

Section MISCELLANEOUS

Item Number	Quantity	Units	Unit Price	Item Description	Cost
620-0100	300	LF	24.48	TEMPORARY BARRIER, METHOD NO. 1	7344.0
634-1200	300	EA	103.44	RIGHT OF WAY MARKERS	31032.0
641-1200	3700	LF	18.54	GUARDRAIL, TP W	68598.0
641-5001	6	EA	617.35	GUARDRAIL ANCHORAGE, TP 1	3704.10
641-5012	6	EA	1871.8	GUARDRAIL ANCHORAGE, TP 12	11230.8
Section Sub Total:					\$121,908.90

Section LUMP ITEMS

Item Number	Quantity	Units	Unit Price	Item Description	Cost
150-1000	1	LS	1400000.0	TRAFFIC CONTROL -	1400000.0
153-1300	1	EA	75272.56	FIELD ENGINEERS OFFICE TP 3	75272.56
201-1500	1	LS	690000.0	CLEARING & GRUBBING -	690000.0
Section Sub Total:					\$2,165,272.56

Total Estimated Cost: \$24,735,507.93

ATTACHMENT 3

UTILITY COST ESTIMATE

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE

Project No: STP00-0000-00(546)
County COLQUITT
P.I. # 0000546

OFFICE: Tifton
DATE: December 3, 2009

Description: SR 133 FM CR 256/SOUTHERLAND AVE TO CR 388/NORTH PINE DRIVE


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	\$40,000.00	\$1,600,000.00	Site Visit / Available Drawings
Georgia Transmission Corp.	\$550,000.00	\$0.00	Site Visit / Available Drawings
Mediacom	\$0.00	\$15,000.00	Site Visit / Available Drawings
Megacable, Llc *	\$0.00	\$39,000.00	Site Visit / Available Drawings
Windstream Communications	\$0.00	\$645,875.00	Site Visit / Available Drawings
CITY OF MOULTRIE	\$2,000.00	\$35,000.00	Site Visit / Available Drawings
City Of Berlin **	\$0.00	\$221,000.00	Site Visit / Available Drawings
Total	\$592,000.00	\$2,555,875.00	

30% Utility Contingency for all relocation cost \$ 944,363.00

** 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.


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(546)
Existing/Required R/Varies: _____ **P.I. Number:** 0000546
Project Termini: CR 256/Old Berlin Rd. to CR 388/Hawthorne Rd. **No. Parcels:** 104

Project Description: SR 133 Widening from CR 256/Old Berlin Rd. to CR 388/Hawthorne Rd.

Land:			
Commercial Land	0.90 acres	@ \$100,000.00 /AC	\$ \$90,000.00
Easements	0 acres	@ \$0.00 /AC	\$ Unknown
Residential Land	38.72 acres	@ \$15,000.00 /AC	\$ \$580,800.00
Easements	0 acres	@ \$0.00 /AC	\$ Unknown
Special Use Land	0 acres	@ \$0.00 /AC	\$ Unknown
Easements	0 acres	@ \$0.00 /AC	\$ Unknown
TOTAL			\$ \$670,800.00
Improvements:			
Unknown			\$ -
Relocations:			
There are no commercial relocations within the project limits.			\$ 0.00
Residential	1		\$ 83,801.00
Possible Misc. Moves			\$ 0.00
TOTAL			\$ 83,801.00
Damages:			
Proximity			\$ Unknown
Consequential			\$ Unknown
Cost to Cure			\$ Unknown
TOTAL			\$ 0.00
SUB-TOTAL:			
	Net Cost		\$ 754,601.00
	Scheduling Contingency	55%	\$ 415,030.55
	Adm/Court Cost	60%	\$ 701,778.93
TOTAL COST		\$1,871,410.48	

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 0000546

County Colquitt

Project Number STP00-0000-00(546)

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>

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)	114930.000	0.29	33329.70	0.15	17239.50	
Excavations paid as specified by Sections 206 (CUBIC YARD)	217540.000	0.29	63086.60	0.15	32631.00	
GAB paid as specified by the ton under Section 310 (TON)	211900.000	0.29	61451.00	0.24	50856.00	
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)	172330.000	2.90	499757.00	0.71	122354.30	
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	850.00	448.66	381.3610	8.00	3050.89	1.50	572.04	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		

SUM QF DIESEL=	660675.19	SUM QF UNLEADED=	223652.84
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DIESEL PRICE ADJUSTMENT(\$)	\$2,138,010.98
UNLEADED PRICE ADJUSTMENT(\$)	\$680,810.43

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

APPLICABLE TO CONTRACTS/PROJECTS CONTAINING THE 413 SPECIFICATION, 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

125.00%	INCREASE ADJUSTMENT
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L.I.N.	TYPE	TACK (GALLONS)	TACK (TONS)	REMARKS
413-1000		31830	136.7130	
			TMT = <input style="width: 80px;" type="text" value="136.7130"/>	

PRICE ADJUSTMENT(\$)	\$81,043.49
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400 / 402 ASPHALT CEMENT PRICE ADJUSTMENT 125% MAX

ENTER APL

ENTER APM

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

125.00%	INCREASE ADJUSTMENT
----------------	----------------------------

L.I.N. / Spec Number	MIX TYPE	HMA	JMF AC%	AC	REMARKS
402-1812		23020.000	5.00	1151.00	Leveling
402-3121	25 mm SP	63760	5.00	3188.00	
402-3130	12.5 mm SP	36810	5.00	1840.50	
402-3190	19 mm SP	48740	5.00	2437.00	
			5.00		
			5.00		
			5.00		
			5.00		
			5.00		
			5.00		
			5.00		
			5.00		
			5.00		
			5.00		
			5.00		
			5.00		
			TMT =	<input style="width: 80px;" type="text" value="8616.50"/>	

PRICE ADJUSTMENT(\$)	\$5,107,861.20
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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

125.00%	INCREASE ADJUSTMENT
----------------	----------------------------

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:		

MONTHLY PRICE ADJUSTMENT(\$)	
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ADJUSTMENT SUMMARY

FUEL PRICE ADJUSTMENT (<i>ENGLISH 125% MAX</i>)	
DIESEL PRICE ADJUSTMENT(\$)	<u>\$2,138,010.98</u>
UNLEADED PRICE ADJUSTMENT(\$)	<u>\$680,810.43</u>
ASPHALT CEMENT PRICE ADJUSTMENT (<i>BITUMINOUS TACK COAT 125% MAX</i>)	<u>\$81,043.49</u>
400 / 402 ASPHALT CEMENT PRICE ADJUSTMENT <i>125% MAX</i>	<u>\$5,107,861.20</u>
ASPHALT CEMENT PRICE ADJUSTMENT FOR BITUMINOUS TACK COAT(<i>Surface Treatment 125% MAX</i>)	

REMARKS:	
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TOTAL ADJUSTMENTS	\$8,007,726.09
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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(546)
P.I. Number: 0000546
Project Termini: CR 256/Old Berlin Rd. to CR 388/Hawthorne Rd.
Project Description: SR 133 Widening from CR 256/Old Berlin Rd. to CR 388/Hawthorne Rd.

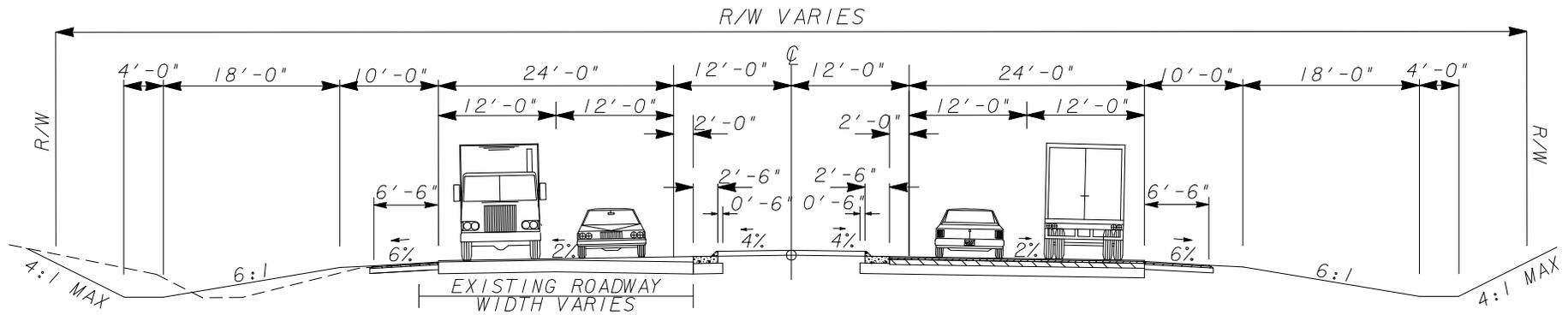
Mitigation Cost; assuming that a Wetland Credit cost of \$7,000 per credit and a Stream Credit cost \$100 per credit

Project No.	Required Stream Credits	Cost of Credit	
STP00-0000-00(546)	1037.8	\$45.00	\$46,701.00
Total Stream Credits	1037.80		
		Sub-Total	\$46,701.00

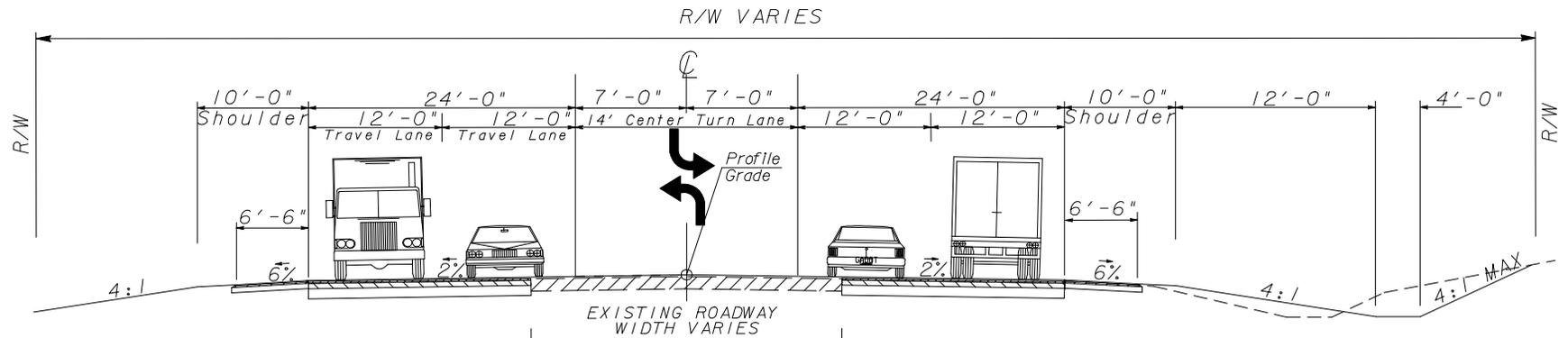
Project No.	Required Wetland Credits	Cost of Credit	
STP00-0000-00(546)	28.41	\$3,500.00	\$99,435.00
Total Wetland Credits	28.41		
		Sub-Total	\$99,435.00
		Total	\$146,136.00

ATTACHMENT 7

TYPICAL SECTIONS



4 Lanes With a 24' Raised Median
 Begin Project to Cannon Road
 Langford Street to Edmondson Road



4 Lanes With a 14' Flush Median
 Cannon Road to Langford Street
 Edmondson Road to Hawthorne Road

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
STP-0000-00(543)				
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
STP-0000-00(544)				
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.
STP-0000-00(545)				
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
STP-0000-00(546)				
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.
STP-032-2(28)				
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
STP-032-2(28) - continued				
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

INTERDEPARTMENT CORRESPONDENCE

FILE STP00-0000-00(546), Colquitt County **OFFICE** Planning
P.I. # 0000546
DATE December 15, 2009

FROM Angela T. Alexander, State Transp. Planning Administrator

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

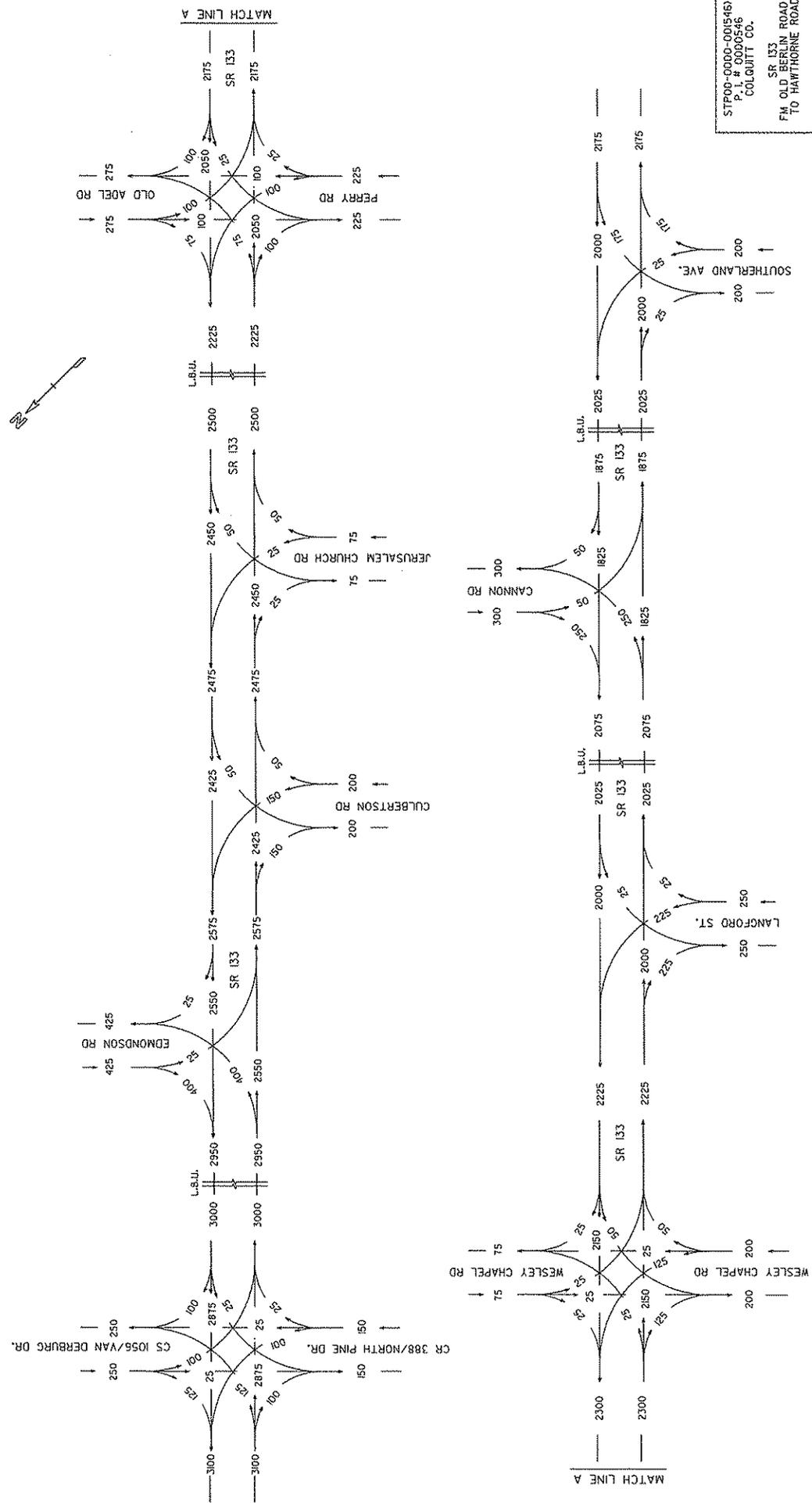
SUBJECT **Reviewed** Design Traffic for S.R. 133 from C.R. 256/Southerland Ave. to
C.R. 388/North Pine Drive.

As per your request, we reviewed the consultant's Design Traffic for the
above project.

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

ATA/AFE

COLQUITT COUNTY



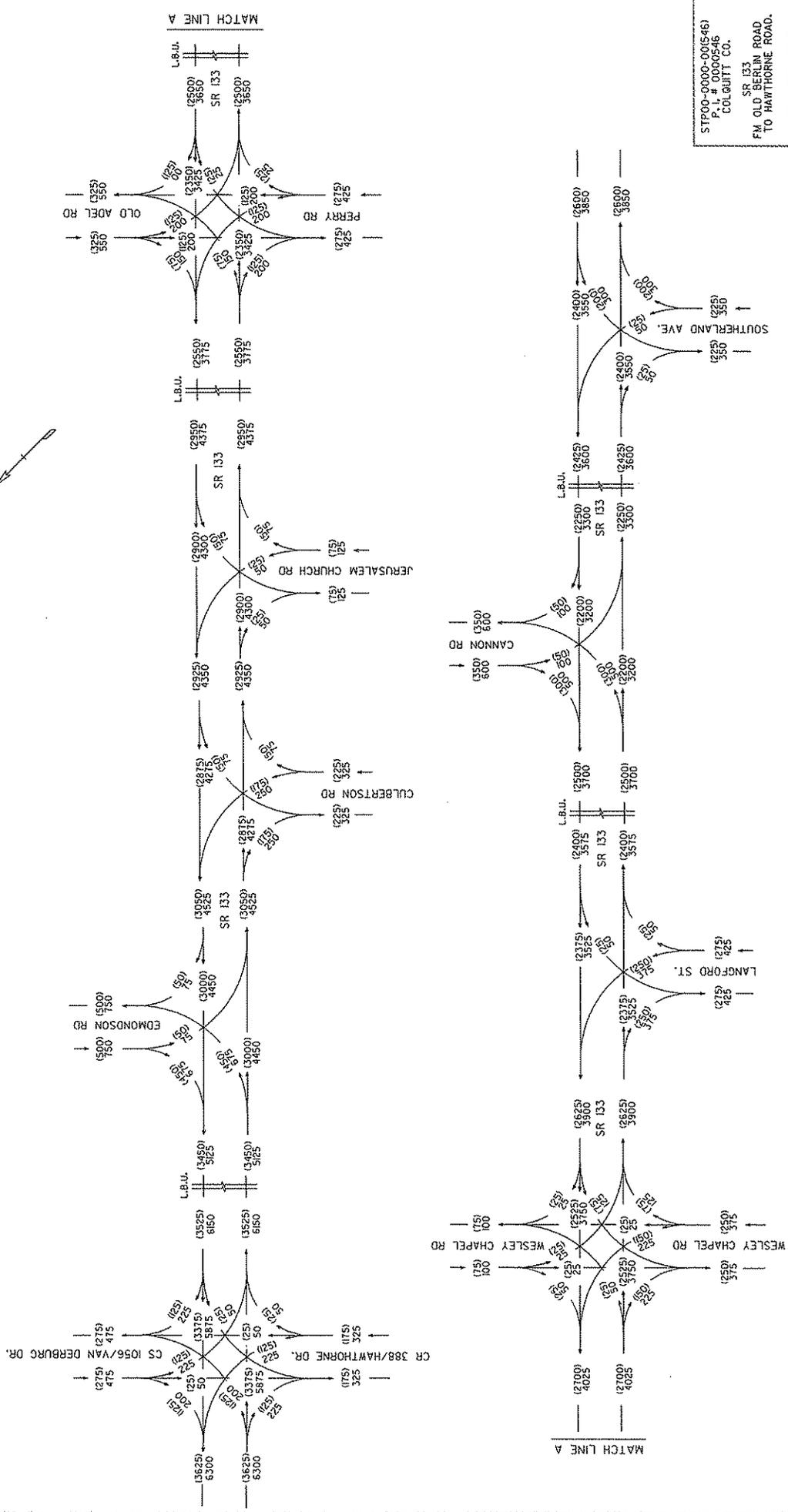
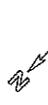
SR 133
 FM OLD BERLIN ROAD
 TO HAWTHORNE ROAD,
 COLQUITT CO.

2008 ADT = 000
 24 HR. T = 20%
 S.U. = 8%
 COMB. = 12%
 TD
 12/08

BUILD CONDITIONS



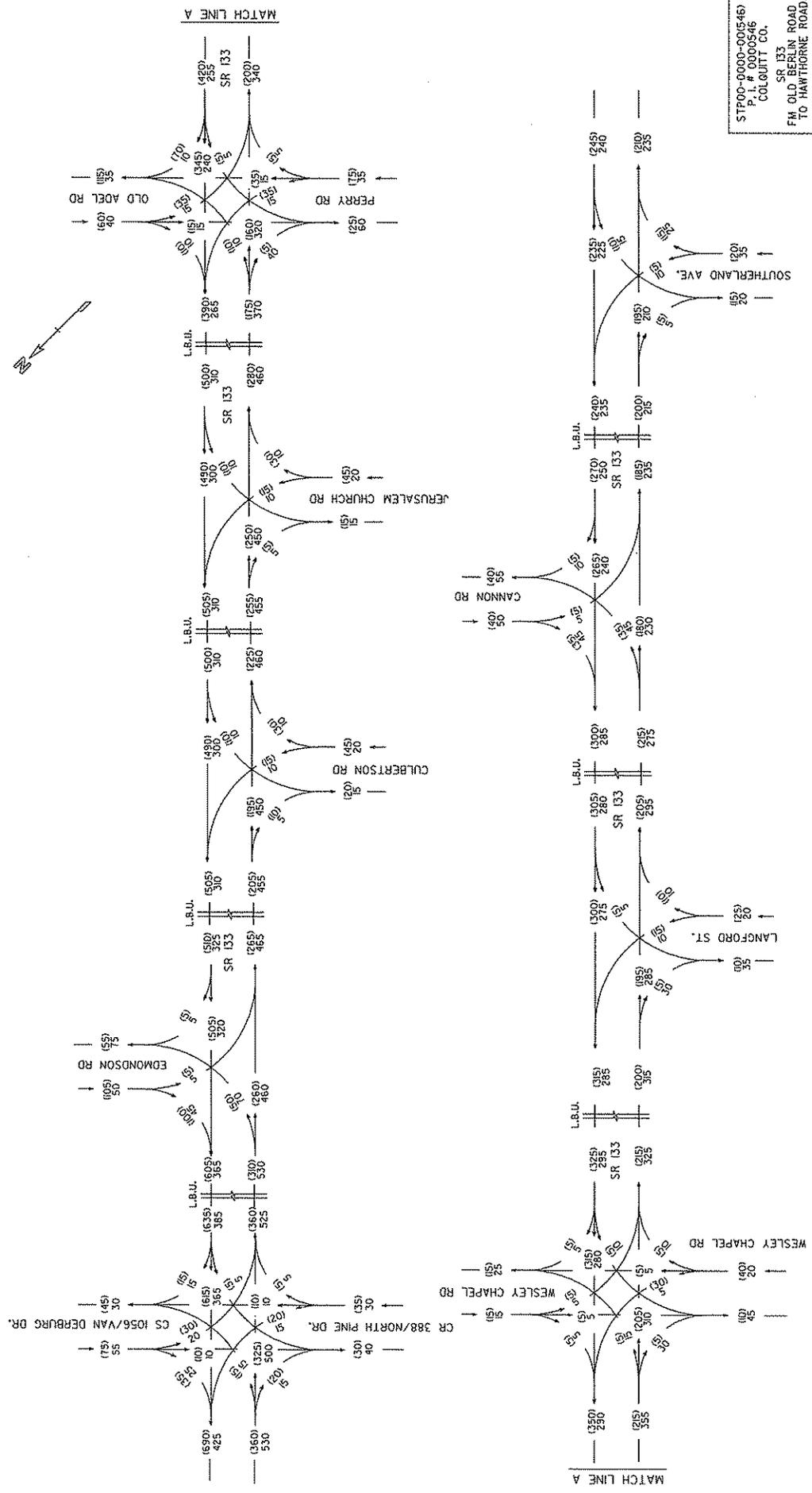
COLQUITT COUNTY



SR 133
 FM OLD BERLIN ROAD
 TO HAINTHORNE ROAD.
 2016 ADT = 0000
 2036 ADT = 000
 24 HR, T = 20%
 S.U. = 8%
 COMB. = 12%
 TB
 12/09

BUILD CONDITIONS

COLQUITT COUNTY



STP00-0000-0005(46)
 P.L. # 0000546
 COLQUITT CO.
 SR 133
 FM OLD BEGON ROAD
 TO HAWTHORNE ROAD.
 2035 AM DHV = 1000
 2036 PM DHV = 000
 PEAK HR. T = 22%
 S. U. = 9%
 COMB. = 13%
 TD
 12/09

BUILD CONDITIONS