

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

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

FILE P.I. # 0010416 **OFFICE** Design Policy & Support
Stephens County
GDOT District 1 - Gainesville **DATE** 11/5/2013
SR 184 @ Toccoa Creek
Bridge Replacement

FROM  Brent Story, State Design Policy Engineer

TO SEE DISTRIBUTION

SUBJECT APPROVED CONCEPT REPORT

Attached is the approved Concept Report for the above subject project.

Attachment

DISTRIBUTION:

Bobby Hilliard, Program Control Administrator
Genetha Rice-Singleton, State Program Delivery Engineer
Glenn Bowman, State Environmental Administrator
Cindy VanDyke, State Transportation Planning Administrator
Ben Rabun, State Bridge Engineer
Kathy Zahul, State Traffic Engineer
Angela Robinson, Financial Management Administrator
Lisa Myers, State Project Review Engineer
Charles "Chuck" Hasty, State Materials Engineer
Mike Bolden, State Utilities Engineer
Paul Tanner, Asst. State Transportation Data Administrator
Attn: Systems & Classification Branch
Jeff Fletcher, Statewide Location Bureau Chief
Andy Casey, State Roadway Design Engineer
Attn: Mac Cranford, District 7 Design Engineer
Attn: Justin Lott, District 1 Design Engineer
Bayne Smith, District Engineer
Brent Cook, District Preconstruction Engineer
Neil Kantner, District Utilities Engineer
Brandon Kirby, Project Manager
BOARD MEMBER - 9th Congressional District

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
PROJECT CONCEPT REPORT**

Project Type: <u>Bridge Replacement</u>	P.I. Number: <u>0010416</u>
GDOT District: <u>1</u>	County: <u>Stephens</u>
Federal Route Number: <u>N/A</u>	State Route Number: <u>184</u>

The proposed project proposes to replace the existing 2-lane bridge located on SR 184/Prather bridge Rd over the Toccoa Creek with a new 2-lane bridge.

Submitted for approval:

<u>Mac Crawford</u> District Seven Design Engineer	<u>1-14-13</u> DATE
for <u>Niall Patel</u> State Program Delivery Engineer	<u>7/18/13</u> DATE
<u>Robert K.</u> GDOT Project Manager	<u>2/16/13</u> DATE

* Recommendations on file
Recommendation for approval:

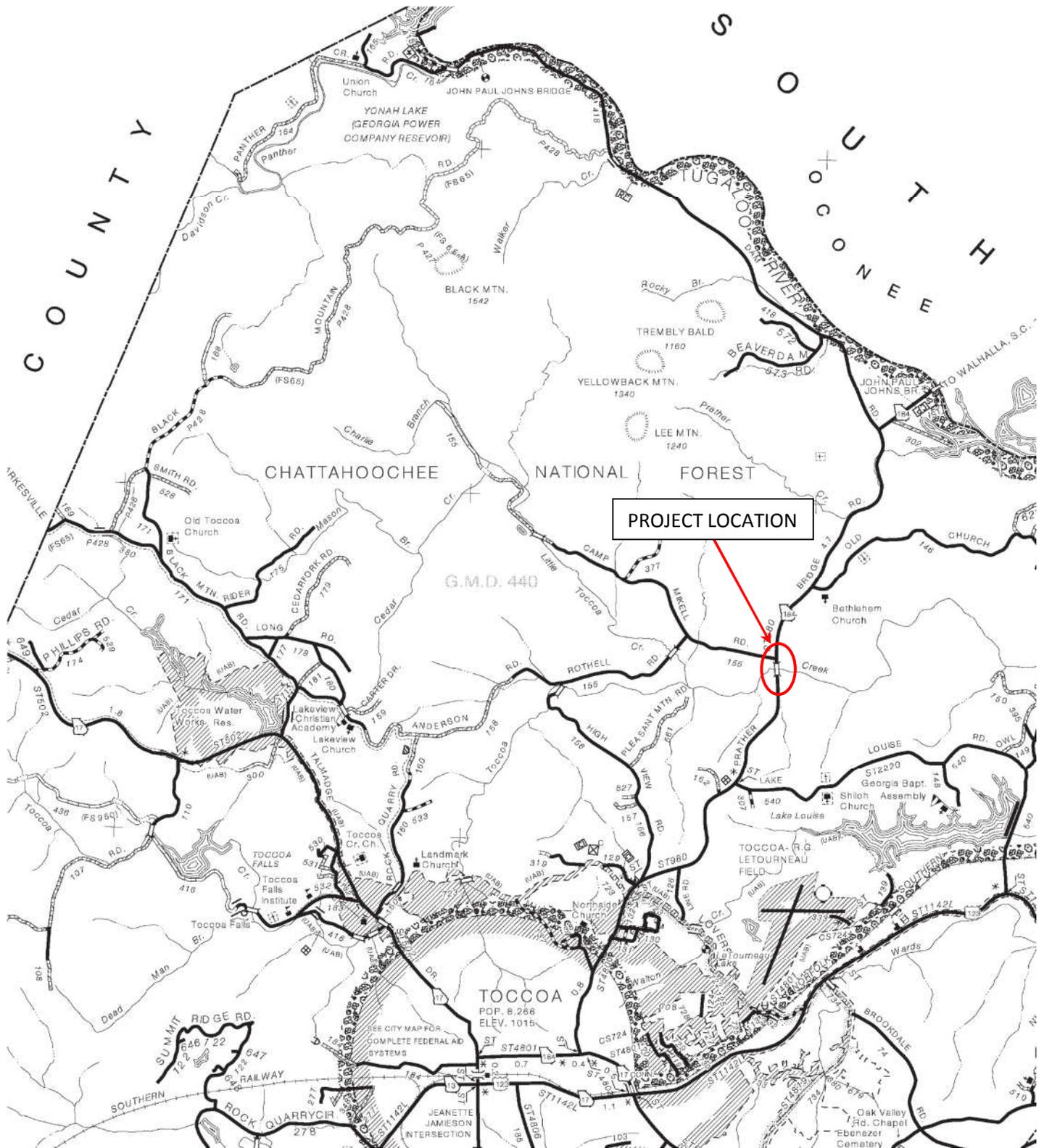
Program Control Administrator	DATE
* <u>Glenn Bowman / KLP</u>	<u>7-30-13</u>
State Environmental Administrator	DATE
* <u>Kathy Zahal / KLP</u>	<u>8-27-13</u>
State Traffic Engineer	DATE
* <u>Lisa Myers / KLP</u>	<u>7-23-13</u>
Project Review Engineer	DATE
for * <u>Jun Birnkammer / KLP</u>	<u>7-24-13</u>
State Utilities Engineer	DATE
District Engineer	DATE
* <u>Ben Rabun / KLP</u>	<u>10-17-13</u>
State Bridge Engineer	DATE

State Transportation Financial Management Administrator DATE

The concept as presented herein and submitted for approval is consistent with that which is included in the Regional Transportation Plan (RTP) and/or the State Transportation Improvement Program (STIP).

<u>Cynthia D. Neufke</u> State Transportation Planning Administrator	<u>7-26-13</u> DATE
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PROJECT LOCATION



PLANNING & BACKGROUND DATA

Project Justification Statement:

This bridge (Structure ID 257-0011-0; SR 184/Prather Bridge Rd over Toccoa Creek) was built in 1940. The bridge consists of three steel beam simple spans on concrete caps with two concrete columns and web walls. This bridge was designed using a truck configuration that weighs less than the current state legal truck weights. The overall condition of this bridge would be classified as fair to poor; superstructure members have advanced section loss and are considered to be classified as poor. The deck is currently overlaid with asphalt and the underside has longitudinal and transverse cracking with some efflorescence. The substructure is exhibiting minor cracking. Due to the structural integrity based on the design and the poor condition of the superstructure, replacement of this bridge is recommended.

Description of the proposed project:

The proposed project is located entirely in Stephens County approximately 3.50 miles northeast of the City of Toccoa. The project proposes to replace the existing bridge over Toccoa Creek by using an offsite detour. The existing bridge has a sufficiency rating of 43.69 and will be replaced with a new 90' x 39.25' concrete bridge. The proposed bridge will be constructed along the existing horizontal alignment of SR 184/Prather Bridge Rd. The proposed length of project is 0.15 miles long.

Federal Oversight: Full Oversight Exempt State Funded Other

Congressional District(s): 9

Projected Traffic: ADT

Current Year (2012): 1087 Open Year (2017): 1150 Design Year (2037): 1400

Traffic Projections Performed by: GDOT Office of Planning

Functional Classification (Mainline): SR 184/Prather Bridge Rd - Rural Major Collector

Is this a 3R (Resurfacing, Restoration, & Rehabilitation) Project? No Yes

Is this project on a designated Bike Route, Pedestrian Plan, or Transit Network?

None Bike Route Pedestrian Plan Transit Network

CONTEXT SENSITIVE SOLUTIONS

Issues of Concern: There are two streams located within the project limits. The first stream parallels SR 184 to the east of the roadway north of the Toccoa Creek Bridge. The second stream parallels SR 184 to the west of the roadway. Also, Barn Swallows have been seen nesting under the existing Toccoa Creek Bridge.

Context Sensitive Solutions: The existing Toccoa Creek Bridge will be removed in accordance with GDOT Construction Standard 107.23G to allow for work outside of the Barn Swallows nesting season and/or use exclusionary devices to prevent nesting.

DESIGN AND STRUCTURAL DATA

Mainline Design Features:

Roadway Name/Identification: Prather Bridge Rd/SR 184

Feature	Existing	Standard*	Proposed
Typical Section	Rural	Rural	Rural
- Number of Lanes	2	2	2
- Lane Width(s)	10	11-12-ft	12
- Outside Shoulder Width & Type	8 feet (4 feet paved)	8 feet (4 feet paved)	8 feet (4 feet paved)
- Outside Shoulder Slope	2%	6%	6%
Posted Speed	55		55
Design Speed	55		55
Min Horizontal Curve Radius	N/A	1186-ft	1190-ft
Superelevation Rate	2%	6%	4%
Grade	1-6%	6%	1-6%
Access Control	Permit	Permit	Permit
Right-of-Way Width	80-ft	80-ft	80-ft
Maximum Grade – Crossroad	2%	8%	2%
Design Vehicle	N/A	SU	SU

*According to current GDOT design policy if applicable

Major Structures:

Structure	Existing	Proposed
ID 257-0011-0/ Prather Bridge Rd/SR 184	The existing two lane bridge is 90 feet long with a deck width of 25.90 feet wide. The bridge road width is 23.50 wide. The sufficiency rating for the bridge is 43.69.	The proposed bridge will consist of two 12 feet wide lanes, 6 feet wide shoulders, and will be 90 feet long with a deck width of 39.25 feet wide.

Major Interchanges/Intersections: None

Utility Involvements: City of Toccoa Water & Sewer, Hart EMC, TruVista CATV, Windstream Telecommunications

Public Interest Determination Policy and Procedure recommended (Utilities)? YES NO

SUE Required: Yes No

Railroad Involvement: None

Complete Streets - Bicycle, Pedestrian, and/or Transit Warrants:

Warrants met: None Bicycle Pedestrian Transit

Right of way:

Required right-of-way anticipated: Yes No. Undetermined

Easements anticipated: Temporary Permanent Utility Other

Anticipated number of impacted parcels: 4

Anticipated number of displacements (Total): 0
 Businesses: 0
 Residences: 0
 Other: 0

Location and Design approval: Not Required Required

Off-site Detours Anticipated: No Yes Undetermined

Transportation Management Plan [TMP] Required: No Yes
 If Yes: Project classified as: Non-Significant Significant
 TMP Components Anticipated: TTC/SP150 TO PI

Design Exceptions to FHWA/AASHTO controlling criteria anticipated: None

Design Variances to GDOT standard criteria anticipated: None

VE Study anticipated: No Yes Completed – Date:

ENVIRONMENTAL DATA

Anticipated Environmental Document:

GEPA: **NEPA:** Categorical Exclusion EA/FONSI EIS

Project Air Quality:

Is the project located in a PM 2.5 Non-attainment area? No Yes
 Is the project located in an Ozone Non-attainment area? No Yes
 Is a Carbon Monoxide hotspot analysis required? No Yes

MS4 Compliance – Is the project located in an MS4 area? No Yes

Environmental Permits/Variances/Commitments/Coordination anticipated:

Permit/ Variance/ Commitment/ Coordination Anticipated	YES	NO	Remarks
1. U.S. Coast Guard Permit	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
2. Forest Service/Corps Land	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3. CWA Section 404 Permit	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4. Tennessee Valley Authority Permit	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
5. Buffer Variance	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Project will impact the 50' buffer of the 2 parallel streams.
6. Coastal Zone Management Coordination	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
7. NPDES	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Project will require an NOI for over 1 acre of disturbance.
8. FEMA	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
9. Cemetery Permit	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
10. Other Permits	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
11. Other Commitments	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
12. Other Coordination	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Is a PAR required? No Yes Completed – Date:

NEPA/GEPA: Anticipate CE

Ecology: There are two cold water streams located within the project limits. The first stream parallels SR 184 to the east of the roadway north of the Toccoa Creek Bridge. The second stream parallels SR 184 to the west of the roadway south of the Toccoa Creek Bridge. There are also Barn Swallows nesting under the existing Toccoa Creek Bridge. The proposed project is located in the Indiana Bat Mist Netting Area.

History: The Cabe Farm House, Resource ID of 57910, is located on the north side of Camp Mikell Road and has been identified as a historic property.

Archeology: To Be Determined – No adverse impacts anticipated.

Air & Noise: To Be Determined – No adverse impacts anticipated.

Public Involvement: PIOH/Detour meeting will be held at a later date.

Major stakeholders: Traveling public, GDOT, & Stephens County

CONSTRUCTION

Issues potentially affecting constructability/construction schedule: Barn Swallows will be prevented from nesting under Toccoa Creek Bridge by using a net.

Early Completion Incentives recommended for consideration: No Yes

PROJECT RESPONSIBILITIES

Project Activities:

Project Activity	Party Responsible for Performing Task(s)
Concept Development	GDOT
Design	GDOT
Right-of-Way Acquisition	GDOT
Utility Relocation	GDOT/Utility
Letting to Contract	GDOT
Construction Supervision	GDOT
Providing Material Pits	Contractor
Providing Detours	N/A
Environmental Studies, Documents, & Permits	GDOT
Environmental Mitigation	GDOT
Construction Inspection & Materials Testing	GDOT

Lighting required: No Yes

Concept Meeting: Held on November 20, 2012 at 10 am at District 1 Office large Conference Room

Other projects in the area: None

Other coordination to date: None

County: Stephens

Project Cost Estimate and Funding Responsibilities:

	Breakdown of PE	ROW	Utility	CST*	Environmental Mitigation	Total Cost
By Whom	GDOT Office	GDOT Office	GDOT Office	GDOT Office	GDOT Office	
\$ Amount	\$250,000.00	\$187,000.00	\$94,500.00	\$1,366,246.23	\$11,050.00	1,908,796.23
Date of Estimate	11/28/2011	8/26/2013	8/14/2013	10/17/2013	8/22/2013	

*CST Cost includes: Construction, Engineering and Inspection, and Liquid AC Cost Adjustment.

ALTERNATIVES DISCUSSION

Alternative selection:

Preferred Alternative: Close SR 184/Prather Bridge Road and replace the existing bridge using off site detour.

Estimated Property Impacts:	\$0.00	Estimated Total Cost:	\$1,908,796.23
Estimated ROW Cost:	\$187,000.00	Estimated CST Time:	8 months

Rationale: This alternative was selected because the cost of this alternative was more favorable than the other alternatives listed below.

No-Build Alternative: Leave the existing bridge in place.

Estimated Property Impacts:	\$0.00	Estimated Total Cost:	\$0.00
Estimated ROW Cost:	\$0.00	Estimated CST Time:	0 Months

Rationale: This alternative was not selected because it does not meet the goals outlined in the Project Justification Statement.

Alternative 1: Realign the existing road and replace the existing bridge to the left of the existing bridge.

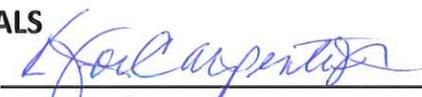
Estimated Property Impacts:	\$0.00	Estimated Total Cost:	\$2,550,000.00
Estimated ROW Cost:	\$200,000.00	Estimated CST Time:	14 months

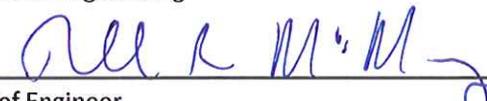
Rationale: This alternative was not selected because the cost and time of this alternative was not favorable given the impact to the Cabe Farm House, Resource ID of 57910, located on the north side of Camp Mikell Road.

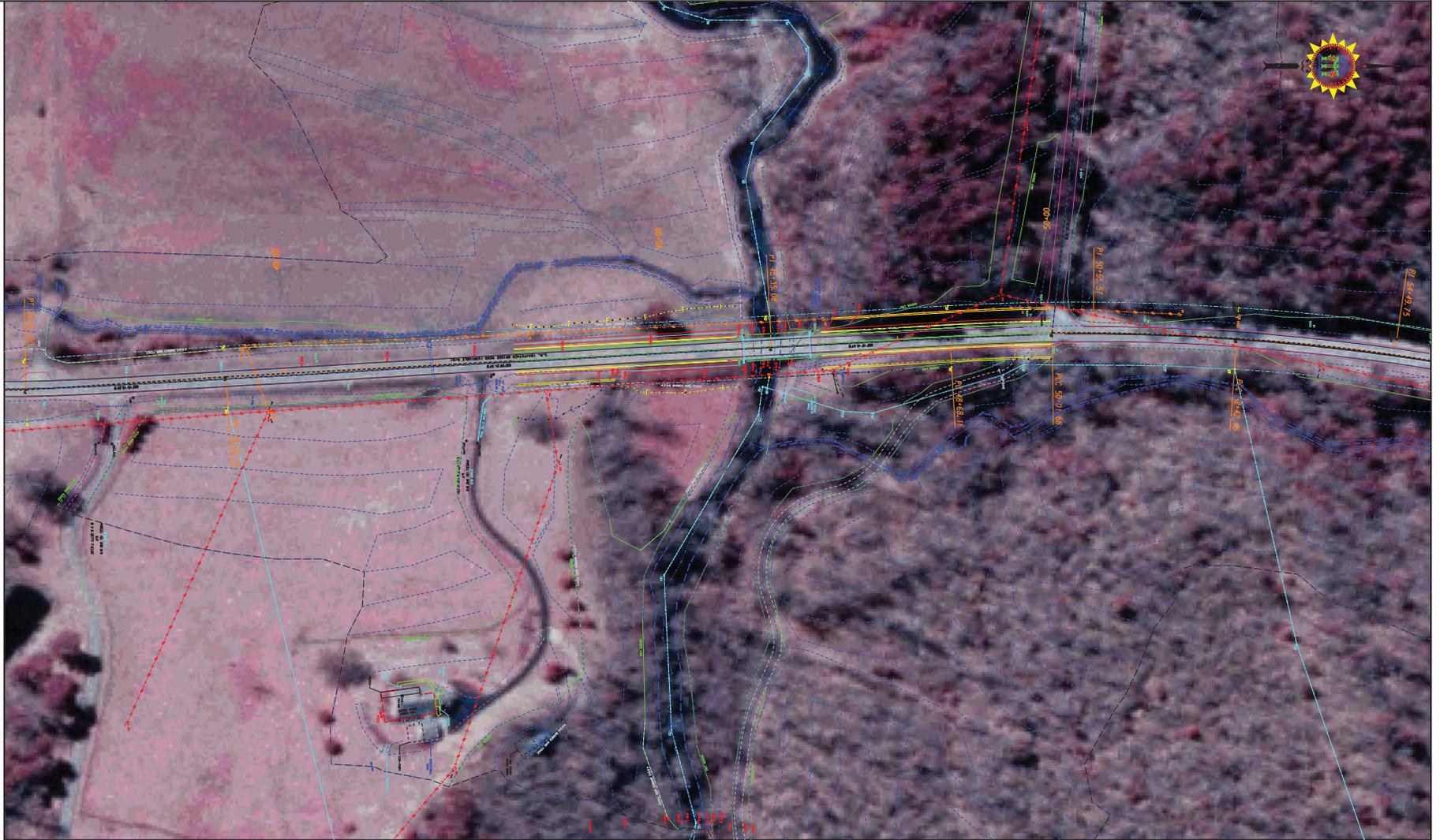
Attachments:

1. Concept Layout
2. Typical sections
3. Detailed Cost Estimates:
 - a. Construction including Engineering and Inspection
 - b. Completed Fuel & Asphalt Price Adjustment forms
 - c. Right-of-Way
 - d. Utilities
 - e. Mitigation Cost Estimate
4. Crash summaries
5. Traffic Counts
6. Bridge inventory
7. Minutes of Concept meetings
8. Detour Map

APPROVALS

Concur:  10/24/2013
 Director of Engineering Date

Approve:  11/4/13
 Chief Engineer Date



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OF
TRANSPORTATION



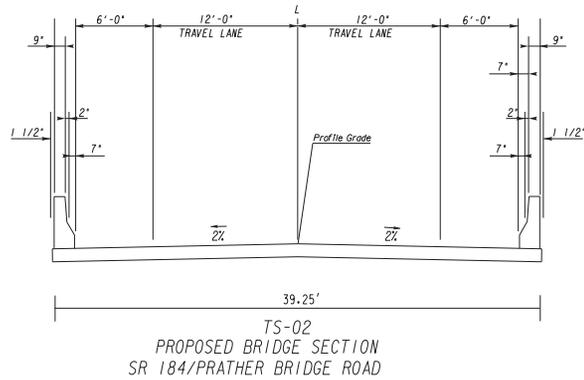
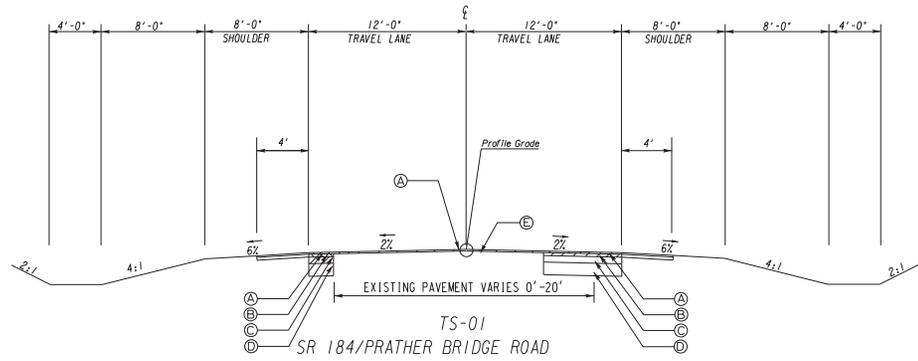
REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION

OFFICE:

MAINLINE PLAN

DRAWING NO.
13-



- Ⓐ RECYCLED ASPH CONC 9.5 MM SUPERPAVE, GP 2 ONLY, INCL BITUM MATL & H LIME, 135 LBS/SY
- Ⓑ RECYCLED ASPH CONC 19.0 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME, 220 LBS/SY
- Ⓒ RECYCLED ASPH CONC 25.0 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME, 770 LBS/SY
- Ⓓ GRADED AGGREGATE BASE: 12"
- Ⓔ RECYCLED ASPH CONC LEVELING, INCL BITUM MATL & H LIME

GEORGIA
DEPARTMENT
OF
TRANSPORTATION

NOT TO SCALE

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT 7 PRECONSTRUCTION

TYPICAL SECTIONS

SR 184/PRATHER BRIDGE ROAD

DRAWING NO.
5-01

DETAILED COST ESTIMATE



Job: 0010416

JOB NUMBER 0010416

FED/STATE PROJECT NUMBER 0010416

SPEC YEAR: 01

DESCRIPTION: SR 184 @ TOCCOA CREEK 3.5 MI NE OF TOCCOA

ITEMS FOR JOB 0010416

0010 - ROADWAY

Line Number	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0025	150-1000	1.000	LS	\$140,000.00000	TRAFFIC CONTROL - 0010416	\$140,000.00
0030	210-0100	1.000	LS	\$260,000.00000	GRADING COMPLETE - 0010416	\$260,000.00
0035	310-1101	3042.000	TN	\$21.61885	GR AGGR BASE CRS, INCL MATL	\$65,764.54
0209	402-3103	296.000	TN	\$66.66000	REC AC 9.5 MM SP, TPII, GP2, INCL BM & H L	\$19,731.36
0015	402-3121	1662.000	TN	\$70.44167	RECYL AC 25MM SP, GP1/2, BM&HL	\$117,074.06
0010	402-3190	494.000	TN	\$101.72434	RECYL AC 19 MM SP, GP 1 OR 2 ,INC BM&HL	\$50,251.82
0040	413-1000	100.000	GL	\$2.73948	BITUM TACK COAT	\$273.95
0045	432-5010	367.000	SY	\$6.99089	MILL ASPH CONC PVMT, VARB DEPTH	\$2,565.66
0169	433-1000	240.000	SY	\$155.92077	REINF CONC APPROACH SLAB	\$37,420.98
0050	550-1080	100.000	LF	\$28.03000	STRM DR PIPE, 8 IN, H 1-10	\$2,803.00
0055	550-3418	7.000	EA	\$427.69444	SAFETY END SECTION 18", SD, 4:1	\$2,993.86
0114	603-2181	10.000	SY	\$51.20994	STN DUMPED RIP RAP, TP 3, 18"	\$512.10
0119	603-7000	10.000	SY	\$3.29228	PLASTIC FILTER FABRIC	\$32.92
0229	621-4061	300.000	LF	\$317.74000	CONCRETE SIDE BARRIER, TY 6A	\$95,322.00
0124	634-1200	12.000	EA	\$155.40858	RIGHT OF WAY MARKERS	\$1,864.90
0204	641-1100	80.000	LF	\$66.78490	GUARDRAIL, TP T	\$5,342.79
0174	641-1200	420.000	LF	\$16.48396	GUARDRAIL, TP W	\$6,923.26
0184	641-5001	2.000	EA	\$637.81747	GUARDRAIL ANCHORAGE, TP 1	\$1,275.63
0179	641-5012	2.000	EA	\$1,803.85863	GUARDRAIL ANCHORAGE, TP 12	\$3,607.72
0144	643-8200	1500.000	LF	\$1.07023	BARRIER FENCE (ORANGE), 4 FT	\$1,605.35
SUBTOTAL FOR ROADWAY:						\$815,365.90

0020 - EROSION CONTROL

Line Number	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0085	163-0232	1.000	AC	\$98.85225	TEMPORARY GRASSING	\$98.85
0080	163-0240	100.000	TN	\$190.18189	MULCH	\$19,018.19
0154	163-0300	2.000	EA	\$1,189.49120	CONSTRUCTION EXIT	\$2,378.98
0139	163-0528	1080.000	LF	\$2.78000	CONSTR AND REM FAB CK DAM -TP C SLT FN	\$3,002.40
0095	165-0030	2250.000	LF	\$0.91780	MAINT OF TEMP SILT FENCE, TP C	\$2,065.05
0219	165-0041	540.000	LF	\$1.39000	MAINT OF CHECK DAMS - ALL TYPES	\$750.60
0214	165-0101	2.000	EA	\$462.46255	MAINT OF CONST EXIT	\$924.93
0159	167-1000	2.000	EA	\$163.13139	WATER QUALITY MONITORING AND SAMPLING	\$326.26
0164	167-1500	12.000	MO	\$367.85998	WATER QUALITY INSPECTIONS	\$4,414.32
0090	171-0030	4500.000	LF	\$2.14198	TEMPORARY SILT FENCE, TYPE C	\$9,638.91
0060	700-6910	2.000	AC	\$928.96881	PERMANENT GRASSING	\$1,857.94
0065	700-7000	3.000	TN	\$80.59859	AGRICULTURAL LIME	\$241.80
0070	700-8000	1.000	TN	\$530.06821	FERTILIZER MIXED GRADE	\$530.07
0075	700-8100	50.000	LB	\$2.35794	FERTILIZER NITROGEN CONTENT	\$117.90
0189	716-2000	700.000	SY	\$0.99099	EROSION CONTROL MATS, SLOPES	\$693.69
SUBTOTAL FOR EROSION CONTROL:						\$46,059.89

DETAILED COST ESTIMATE



Job: 0010416

0030 - SIGNS AND MARKING

Line Number	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0134	636-1020	72.000	SF	\$14.88047	HWY SGN,TP1MAT,REFL SH TP3	\$1,071.39
0129	636-2070	96.000	LF	\$9.02994	GALV STEEL POSTS, TP 7	\$866.87
0100	653-1501	3714.000	LF	\$0.71030	THERMO SOLID TRAF ST 5 IN, WHI	\$2,638.05
0105	653-1502	3714.000	LF	\$0.61054	THERMO SOLID TRAF ST, 5 IN YEL	\$2,267.55
0110	653-1704	11.000	LF	\$5.94350	THERM SOLID TRAF STRIPE,24",WH	\$65.38
0149	654-1001	46.000	EA	\$4.27215	RAISED PVMT MARKERS TP 1	\$196.52
0194	657-1054	180.000	LF	\$6.65111	PRF PL SD PVMT MKG,5",WH,TP PB	\$1,197.20
0199	657-6054	180.000	LF	\$6.24109	PRF PL SD PVMT MKG,5",YW,TP PB	\$1,123.40
SUBTOTAL FOR SIGNS AND MARKING:						\$9,426.36

0040 - BRIDGE

Line Number	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0224	540-1101	1.000	LS	\$35,325.00000	REM OF EX BR, STA NO - 0010416	\$35,325.00
0020	543-9000	1.000	LS	\$353,250.00000	CONSTR OF BRIDGE COMPLETE - 0010416	\$353,250.00
SUBTOTAL FOR BRIDGE:						\$388,575.00

TOTALS FOR JOB 0010416

ITEMS COST:	\$1,259,427.15
COST GROUP COST:	\$0.00
ESTIMATED COST:	\$1,259,427.15
CONTINGENCY PERCENT:	0.00
ENGINEERING AND INSPECTION:	0.05
ESTIMATED COST WITH CONTINGENCY AND E&I:	\$1,322,398.51

PROJ. NO.

[Redacted]

CALL NO.

P.I. NO.

0010416

DATE

9/4/2012

INDEX (TYPE)	DATE	INDEX
REG. UNLEADED	Sep-12	\$ 3.431
DIESEL		\$ 3.786
LIQUID AC		\$ 594.00

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)				43694.64	\$	43,694.64
Monthly Asphalt Cement Price month placed (APM)	Max. Cap	60%	\$	950.40		
Monthly Asphalt Cement Price month project let (APL)			\$	594.00		
Total Monthly Tonnage of asphalt cement (TMT)				122.6		

ASPHALT	Tons	%AC	AC ton
Leveling		5.0%	0
12.5 OGFC		5.0%	0
12.5 mm		5.0%	0
9.5 mm SP	296	5.0%	14.8
25 mm SP	1662	5.0%	83.1
19 mm SP	494	5.0%	24.7
	2452		122.6

BITUMINOUS TACK COAT

Price Adjustment (PA)			\$	153.08	\$	153.08
Monthly Asphalt Cement Price month placed (APM)	Max. Cap	60%	\$	950.40		
Monthly Asphalt Cement Price month project let (APL)			\$	594.00		
Total Monthly Tonnage of asphalt cement (TMT)				0.429510092		

Bitum Tack

Gals	gals/ton	tons
100	232.8234	0.42951009

PROJ. NO.

[Redacted]

CALL NO.

P.I. NO.

0010416

DATE

9/4/2012

BITUMINOUS TACK COAT (surface treatment)

Price Adjustment (PA)						0	\$	-
Monthly Asphalt Cement Price month placed (APM)		Max. Cap	60%	\$	950.40			
Monthly Asphalt Cement Price month project let (APL)				\$	594.00			
Total Monthly Tonnage of asphalt cement (TMT)					0			

Bitum Tack	SY	Gals/SY	Gals	gals/ton	tons
Single Surf. Trmt.	[Redacted]	0.20	0	232.8234	0
Double Surf.Trmt.	[Redacted]	0.44	0	232.8234	0
Triple Surf. Trmt	[Redacted]	0.71	0	232.8234	0
					0

TOTAL LIQUID AC ADJUSTMENT							\$	43,847.72
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GEORGIA DEPARTMENT OF TRANSPORTATION
PRELIMINARY ROW COST ESTIMATE SUMMARY

Date: 8/26/2013 Project: Bridge Replacement
 Revised: County: Stephens
 PI: 0010416

Description: Bridge Replacement
 Project Termini: Bridge Replacement

Existing ROW: Varies
 Required ROW: Varies
 Parcels: 4

Land and Improvements _____ \$98,850.00

Proximity Damage	\$0.00
Consequential Damage	\$0.00
Cost to Cures	\$0.00
Trade Fixtures	\$0.00
Improvements	\$25,000.00

Valuation Services _____ \$4,000.00

Legal Services _____ \$40,200.00

Relocation _____ \$8,000.00

Demolition _____ \$0.00

Administrative _____ \$35,500.00

TOTAL ESTIMATED COSTS _____ \$186,550.00

TOTAL ESTIMATED COSTS (ROUNDED) _____ \$187,000.00

Preparation Credits	Hours	Signature

Prepared By: Dashone Alexander CG#: 286999 08/26/2013(E)

Approved By: Dashone Alexander CG#: 286999 08/26/2013(E)

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

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE P.I. No. 0010416 **OFFICE** Environmental Services
DATE August 22, 2013

FROM *GB*
Glenn Bowman, P.E., State Environmental Administrator

TO Brandon Kirby, Project Manager

SUBJECT Preliminary Mitigation Cost Estimate

As requested by your office, we are furnishing you with a preliminary cost estimate for the subject project. The proposed project consists of the replacement of the bridge on SR 184 over Toccoa Creek northeast of Toccoa, Georgia in Stephens County. After reviewing the plans and based on the information provided, wetlands and/or streams will be impacted by the proposed project. The total estimated cost for the project is \$11,050.

DISCLAIMER: This information is based solely on a desktop review of the information available. Only after a field reconnaissance, can a more detailed and accurate cost be estimated.

If you have any questions or need additional information, please contact Lisa Westberry (404) 631-1772 of our office.

GB/HDC/lmw

cc: Kelvin Wilson, GDOT
General File

STEPHENS COUNTY, SR 184 milelogs 13.55 - 15.05

Accident No	Date	Time	Route	Milelog	Intersecting Rt Type	Intersecting Rt	Injuries	Fatalities	Harmful Event	Collision	Location of Impact	Light	Surface	DirVeh1	DirVeh2	MnvrVeh1	MnvrVeh2
'84180066	8/31/2008	2:44 AM	'018400	13.6		'	0	1	Overturn	Not A Collision With A Motor Vehicle	Off Roadway	Dark-Not Lighted	Dry	S		Negotiating a Curve	
'83670262	9/20/2008	5:15 AM	'018400	13.9		'	0	0	Overturn	Not A Collision With A Motor Vehicle	Off Roadway	Dark-Not Lighted	Dry	S		Straight	
'81200619	4/3/2008	5:06 PM	'018400	14.1		'	0	0	Ditch	Not A Collision With A Motor Vehicle	On Shoulder	Daylight	Wet	S		Negotiating a Curve	
'81200620	4/3/2008	5:13 PM	'018400	14.29		'	0	0	Motor Vehicle in Motion	Rear End	On Roadway	Daylight	Wet	N	N	Straight	Stopped
'80040564	1/7/2008	6:06 PM	'018400	14.85	2	'014600	1	0	Tree	Not A Collision With A Motor Vehicle	Off Roadway	Dark-Not Lighted	Dry	N		Turning Right	
'84310470	10/11/2008	12:36 AM	'018400	15.05		'	2	0	Culvert	Not A Collision With A Motor Vehicle	Off Roadway	Dark-Lighted	Dry	N		Negotiating a Curve	

NO BUILD = BUILD
Department of Transportation
State of Georgia

INTERDEPARTMENT CORRESPONDENCE

FILE Stephens County **OFFICE** Planning
P.I. # 0010416 **DATE** January 11, 2012

FROM Cindy VanDyke, State Transportation Planning Administrator

TO Bobby Hilliard, P.E., State Program Delivery Engineer
Attention: Brandon Kirby, P.E.

SUBJECT Traffic Assignment for SR 184 @ Toccoa Creek 3.5 MI NE of Toccoa

We are furnishing estimated Traffic Assignment for the above project as follows:

TC # 0183
2009 ADT = 1050
2017 ADT = 1150
2037 ADT = 1400
2009 DHV = 95
2017 DHV = 105
2037 DHV = 125
K = 9%
D = 60%
T. = 4.5%
S.U. T = 3%
COMB. T = 1.5%
24 HOUR T = 5%
S.U. = 3.5%
COMB. = 1.5%

If you have any questions concerning this information please contact Leslie Woods at (404) 631-1773

Bridge Inventory Data Listing



Parameters: Bridge Serial Num

Structure ID:257-0011-0

Stephens

SUFF. RATING: 43.69

Location & Geography

Structure ID: 257-0011-0
 200 Bridge Information: 06
 *6A Feature Int: TOCCOA CREEK
 *6B Critical Bridge: 0
 *7A Route No Carried: SR00184
 *7B Facility Carried: SR 184
 9 Location: 3.5 MI NE OF TOCCOA
 2 Dot District: 1
 207 Year Photo: 2011
 *91 Inspection Frequency: 24 Date: 02/03/2011
 92A Fract Crit Insp Freq: 0 Date: 02/01/1901
 92B Underwater Insp Freq: 0 Date: 02/01/1901
 92C Other Spc. Insp Freq: 0 Date: 02/01/1901
 * 4 Place Code: 00000
 *5 Inventory Route(O/U): 1
 Type: 3
 Designation: 1
 Number: 00184
 Direction: 0
 *16 Latitude: 34 -37.1677 HMMS Prefix:SR
 *17 Longitude: 83 -17.8615 HMMS Suffix:00 MP:14.53
 98 Border Bridge: 000%Shared:00
 99 ID Number: 0000000000000000
 *100 STRAHNET: 0
 12 Base Highway Network: 1
 13A LRS Inventory Route: 2571018400
 13B Sub Inventory Route: 0
 101 parallel Structure: N
 *102 Direction of Traffic: 2
 *264 Road Inventory Mile Post: 014.15
 *208 Inspection Area: 1 Initials: EFP
 Engineer's Initials: kww
 * Location ID No: 257-00184D-014.53N

*104 Highway System: 0
 *26 Functional Classification: 07
 *204 Federal Route Type: S No: 00980
 105 Federal Lands Highway: 0
 *110 Truck Route: 0
 2006 School Bus Route: 1
 217 Benchmark Elevation: 0000.00
 218 Datum: 0
 *19 Bypass Length: 08
 *20 Toll: 3
 *21 Maintanance: 01
 *22 Owner: 01
 *31 Design Load: 2
 37 Historical Significance: 5
 205 Congressional District: 10
 27 Year Constructed: 1940
 106 Year Reconstructed: 0000
 33 Bridge Medium: 0
 34 Skew: 00
 35 Structure Flared: 0
 38 Navigation Control: 0
 213 Special Steel Design: 0
 267 Type of Paint: 5
 *42 Type of Service On: 1
 Type of Service Under: 5
 214 Movable Bridge: 0
 203 Type Bridge: A
 259 Pile Encasement 3
 *43 Structure Type Main: 3 02
 45 No.Spans Main: 003
 44 Structure Type Appr: 0 00
 46 No Spans Appr: 0000
 226 Bridge Curve Horz 0 Vert: 0
 111 pier Protection 0
 107 Deck Structure Type: 1
 108 Wearing Structure Type: 6
 Membrane Type: 0
 Deck Protection: 8

Signs & Attachments

225 Expansion Joint Type: 02
 242 Deck Drains: 0
 243 Parapet Location: 0
 Height: 0
 Width: 0
 238 Curb Height: 1
 Curb Material: 1
 239 Handrail 11
 *240 Medium Barrier Rail: 0
 241 Bridge Median Height: 0
 * Bridge Median Width: 0
 230 Guardrail Loc. Dir. Rear: 3
 Fwr: 3
 Oppo. Dir. Rear: 0
 Oppo. Fwr: 0
 244 Aproach Slab 0
 224 Retaining Wall: 0
 233Posted Speed Limit: 45
 236 Warning Sign: 0.00
 234 Delineator: 1.00
 235 Hazzard Boards: 1
 237 Utilities Gas: 00
 Water: 00
 Electric: 00
 Telephone: 00
 Sewer: 00
 247 Lighting Street: 0
 Navigation: 0
 Aerial: 0
 *248 County Continuity No.: 00



Processed Date:6/1/2012

Bridge Inventory Data Listing

Parameters: Bridge Serial Num

Structure ID:257-0011-0

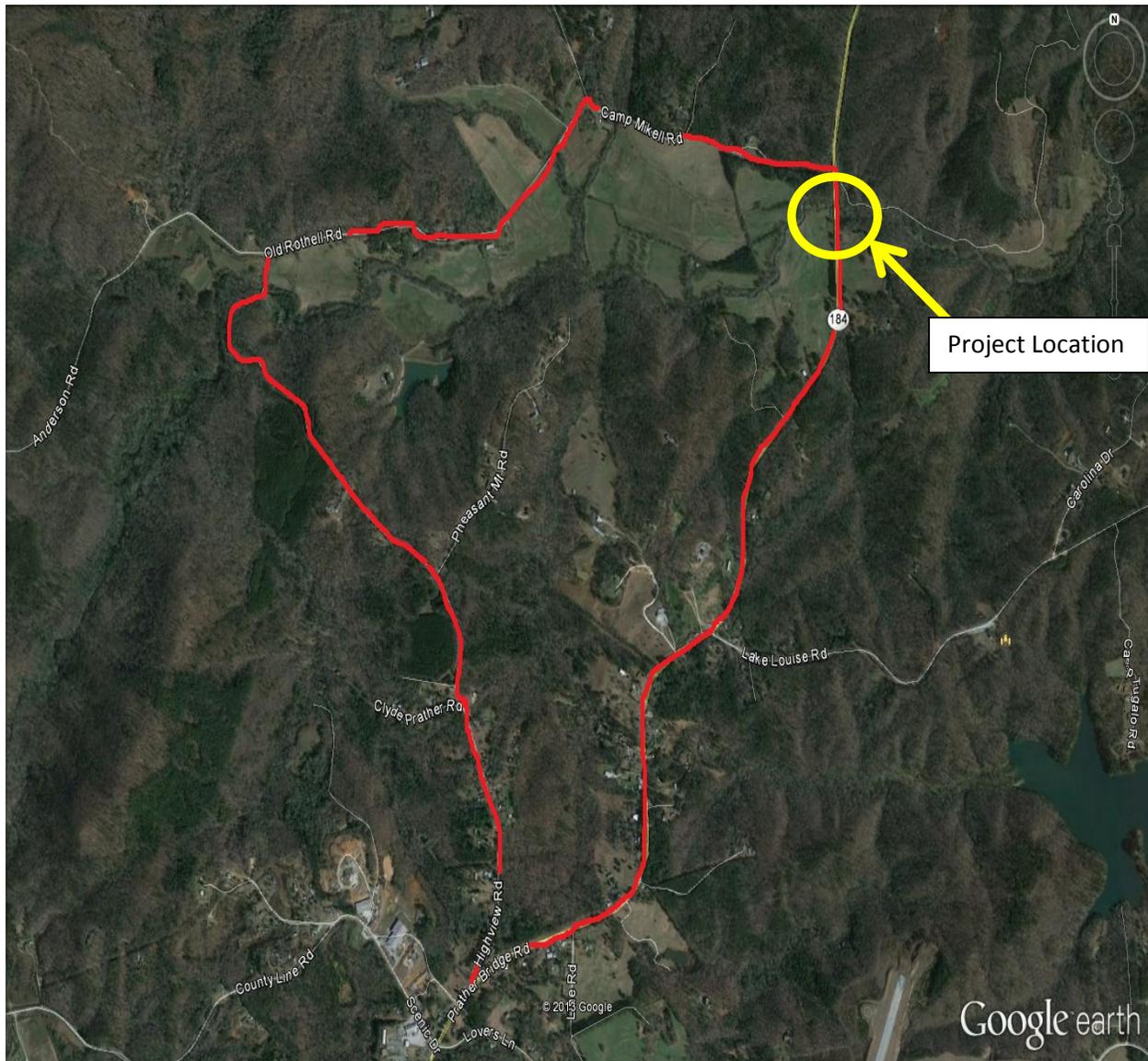
Programming Data		Measurements:				
201 Project No:	PR 50	*29ADT	001080	Year:2007	65 Inventory Rating Method:	1
202 Plans Available:	4	109%Trucks:	0		63 Operating Rating Method:	1
249 Prop Proj No:	0010416	* 28 Lanes On:	02	Under:00	66 Inventory Type:	2 Rating: 27
250 Approval Status:	0000	210 No. Tracks On:	00	Under:00	64 Operating Type:	2 Rating: 27
251 PI Number:	0010416	* 48 Max. Span Length	0030		231Calculated Loads:	
252 Contract Date:	02/01/1901	* 49 Structure Length:	90		H-Modified:	21 0
260 Seismic No:	00000	51 Br. Rwdy. Width	23.50		HS-Modified:	28 0
75 Type Work:	34 1	52 Deck Width:	25.90		Type 3:	25 0
94 Bridge Imp. Cost:	\$94	* 47 Tot. Horiz. Cl:	24		Type 3s2:	40 0
95 Roadway Imp. Cost:	41	50 Curb / Sidewalk Width	0.50 / 0.50		Timber:	34 0
96 Total Imp Cost:	178	32 Approach Rdwy. Width	020		Piggyback:	40 0
76 Imp Length:	000301	*229 Shoulder Width:			261 H Inventory Rating:	22
97 Imp Year:	1990	Rear Lt:	3.90	Type:8 Rt:3.80	262 H Operating Rating	37
114Furure ADT:	001620	Fwd. Lt:	5.40	Type:8 Rt:4.70	67 Structural Evaluation:	4
		Permanent Width:			58 Deck Condition:	5
		Rear:	20.20	Type:8	59 Superstructure Condition:	4
			20.20	Type:2	* 227 Collision Damage:	0
		Intersaction Rear:	0	Fwd: 1	60A Substructure Condition:	5
		36Safety Features Br. Rail:	2		60B Scour Condition:	6
		Transition:	2		60C Underwater Condition	N
		App. G. Rail:	2		71 Waterway Adequacy:	9
		App. Rail End:	2		61 Channel Protection Cond.:	6
		53 Minimum Cl. Over:	99' 99 "		68 Deck Geometry:	3
		Under:			69 UnderClr. Horz/Vert:	N
		*228 Minimum Vertical Cl			72 Appr. Alignment:	7
		Act. Odm Dir.:	99' 99"		62 Culvert:	N
		Oppo. Dir:	99' 99"		Posting Data	
		Posted Odm. Dir:	00' 00"		70 Bridge Posting Required	5
		Oppo. Dir:	00' 00"		41 Struct Open, Posted, CL:	A
		55 Lateral Undercl. Rt:	N 0 0		* 103 Temporary Structure:	0
		56 Lateral Undercl. Lt:	0.00		232 Posted Loads	
		*10 Max Min Vert Cl:	99' 99" Dir:0		H-Modified:	00
		39 Nav Vert Cl:	000 Horiz:0000		HS-Modified:	00
		116 Nav Vert Cl Closed:	000		Type 3:	00
		245 Deck Thickness Main	7.00		Type 3s2:	00
		Deck Thick Approach:	0.00		Timber:	00
		246 Overlay Thickness:	1.00		Piggyback	00
		212 Year Last Painted:	Sup:1996Sub:0000		253 Notification Date:	02/01/1901
					258 Fed Notify Date:	2/1/1901 12:00:00AM

requested. Lastly, she stated that we didn't have to have a PIOH if we were not doing a detour.

- Brandon stated he would check to see if we needed a PIOH for the project.

This document represents GDOT District 7 Design interpretation of the meeting. Please contact Kelvin Wilson at kewilson@dot.ga.gov or Mac Cranford at 770-986-1260 if you have any questions, comments, and/or concerns.

SR 184/PRATHER BRIDGE RD
P.I. 0010416
DETOUR MAP



Measured distances:

Camp Mikell Rd - 0.66 mile

Old Rothell Rd - 0.95 mile

Highview Rd – 1.80 miles

SR 184/Prather Bridge Rd – 2.05 miles