ORIGINAL TO GENERAL FILES

D.O.T. 66

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE BRSLB-3104(4) Baldwin County
P. I. No. 245405-
SR 243/US 441 Bus over Fishing Creek

OFFICE Preconstruction

DATE August 2, 2004

FROM Margaret B. Pirkle, P.E., Assistant Director of Preconstruction

TO SEE DISTRIBUTION

SUBJECT PROJECT CONCEPT REPORT APPROVAL

Attached for your files is the approval for subject project.

MBP/cj

Attachment

DISTRIBUTION:

David Mulling
Harvey Keepler
Jerry Hobbs
Jamie Simpson
Michael Henry
Phillip Allen
Joe Palladi (file copy)
Paul Liles
Brent Story
Mike Thomas
BOARD MEMBER

D.O.T. 66

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE BRSLB-3104(4) Baldwin County
P.I. No. 245405
SR 243/US 441 Bus over Fishing Creek

OFFICE Preconstruction

DATE July 20, 2004

FROM Margaret B. Pirkle, P.E., Assistant Director of Preconstruction

TO Paul V. Mullins, P.E., Chief Engineer

SUBJECT PROJECT CONCEPT REPORT

This project is the replacement of a structurally deficient bridge on SR 243/US 441 Bus over Fishing Creek in the City of Milledgeville, Georgia. The existing bridge, constructed in 1957 is load limited with a sufficiency rating of 65. The substructure is supported by 10" H-piles. In accordance with DOT MOG 2405-1, the existing bridge meets the established criteria for replacement. State Route 243 at this location is an urban four lane roadway with 11' travel lanes with curb and gutter and sidewalks on both sides. This section of SR 243 is functionally classified as an urban minor arterial. Traffic is projected to be 14,700 VPD and 17,000 VPD in the years 2007 and 2027 respectively. The posted speed and the design speed are 40 MPH.

The construction proposes to construct a new 228' x 60' concrete bridge over Fishing Creek at the existing bridge site. The approaches will consist of four, 11' lanes with curb and gutter and 5' sidewalks on both sides (6' sidewalks will be provided across the proposed bridge). Based on the current design guidelines, lane widths should be 12' along this roadway and the typical section should be a five lane section with a center turn lane. A design variance will be requested to maintain the existing typical section and lane width (11') throughout the project limits (1200'±).

Environmental concerns include requiring a COE 404 Permit; a Categorical Exclusion is anticipated; a public hearing open house is not required; time saving procedures are appropriate.

This project will require split funding because the sufficiency rating exceeds 50. "BR" funding will cover the amount equal to the widening and the remainder will consist of "STP" funding.

BRSLB-3104(4) Baldwin
July 20, 2004

The estimated costs for this project are:

	PROPOSED	APPROVED	PROG DATE	LETDATE
Construction (includes E&C and inflation)	**BR** $1,207,000 **STP** $ 729,000	**BR** $1,112,000 **STP** $ 947,000	Q10 Q24	LR
Right-of-Way	$ 542,000	$ 542,000		
Utilities*	$ 29,000	-----		

*Notification letter sent to City of Milledgeville 7-14-04.

I recommend this project concept be approved.

MBP:JDQ/cj

Attachment

CONCUR _____
Thomas L. Turner, P.E., Director of Preconstruction

APPROVE _____
Paul V. Mullins, P.E., Chief Engineer

Quarles, Johnny

From: Smith, Alan

Sent: Monday, July 12, 2004 2:48 PM

To: Brewer, George; Quarles, Johnny

Subject: BRST-3104 (4) Baldwin County, P.I. # 245405 - Bridge replacement on SR 243 Business over Fishing Creek

Johnny,
I am sending this in response to comments I received from Engineering Services concerning the above subject concept report:

Comments:

- Based on the current guidelines (dated 1/7/03 from the Chief Engineer), the lane widths should be 12 feet on this roadway. Lane widths may be reduced to 11 feet on urban Type "A" facilities.

- Based on these same guidelines, the typical section for this roadway should be a five lane section with a two-way left turn lane.

- There are 4 – 11 feet lanes existing on SR 243 Business throughout this area. The district recommends that we apply for a design variance in order to match those lane widths instead of constructing only 1200 ft of lanes that are only 1 foot wider than the existing lanes on either end of the project.
- There is no reason to construct 1200 L.F. of two way left turn lane when there is no turn lane on the rest of the route in this area. It will increase the cost of the bridge as well as the overall roadway costs. The district recommends that we apply for a design variance requesting a waiver of the two way left turn lane throughout the project limits.

Comment:

- Also, based on the same guidelines, the shoulder width should be 16', which is the preferred width.

- The project is located in a mapped FEMA floodplain area. Widening the existing shoulders to 16 feet will greatly increase the amount of commercial right of way required as well as increase the amount of wetland involvement for the project. The district feels that increasing the shoulder width to 16 feet for a distance of only 1200' will not benefit the route through this area and we recommend that a normal shoulder width of 10 feet be approved. This will facilitate the transition of the proposed sidewalk onto the bridge and tie into the existing typical sections on either end of the project better.

If you have any questions or comment, please call me.

Alan Smith
District Design Engineer
P.O. Box 8 - 801 Fourth Street
Tennille, Georgia 31089
478-552-4642
478-552-4677 Fax
alan.smith@dot.state.ga.us

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENTAL CORRESPONDENCE

FILE: BRST-3104(4) Baldwin
P.I. No.: 245405
S.R. 243/29/U.S. 441 BUS at Fishing Creek

OFFICE: Engineering Services

DATE: July 8, 2004

FROM: David Mulling, Project Review Engineer DM

TO: Meg Pirkle, Assistant Director of Preconstruction

SUBJECT: **CONCEPT REPORT**

We have reviewed the Concept Report submitted July 6 and 8, 2004 by the letter from Alan Smith, dated June 30, 2004, and have the following comments.

- Based on current guidelines (dated 1/7/03 from the Chief Engineer), the lane widths should be 12 feet on this roadway. Lane widths may be reduced to 11 feet on Urban Type "A" facilities.
- Based on these same guidelines, the typical section for this roadway should be a five lane section with a Two-Way, Left-Turn Lane.
- Also, based on the same guidelines, the shoulder width should be 16' which is the preferred width.

Note: The first two items will require a Design Variance if not corrected to meet current guidelines.

- Include quantities of Earthwork and a square foot quantity for the bridge for informational purposes.

The costs for the project are:

	Bridge Widening	**Bridge Replacement**
Construction	$915,000	$1,466,590
Inflation	$183,000*	$293,318*
E&C	$108,800	$175,991
Reimbursable Utilities	$28,300	$28,300
Right of Way	$542,000	$542,000

* Inflation capped at 20%

NOTE: This project will require split funding since the bridge has a sufficiency rating above 50 and is to be replaced. The BR funding is the amount equal to the Bridge Widening costs. Other costs will have to come from other funding sources.

REW

Mike Thomas, Attn.: Alan Smith

SCORING RESULTS AS PER MOG 2440-2

Project Number:	**County:**	**PI No.:**
BRST-3104(4)	Baldwin	245405

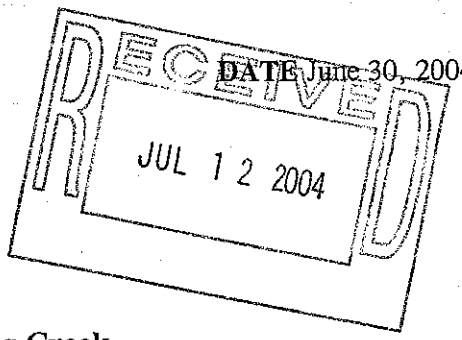
Report Date:	**Concept By:**
Jun 30, 2004	DOT Office: District 2
☒ Concept Stage	Consultant: N/A

Project Type: Choose One From Each Column			
	☐ Major ☒ Minor	☒ Urban ☐ Rural	☐ ATMS ☒ Bridge Replacement ☐ Building ☐ Interchange Reconstruction ☐ Intersection Improvement ☐ Interstate ☐ New Location ☐ Widening & Reconstruction ☐ Miscellaneous

FOCUS AREAS	SCORE	RESULTS
Presentation	90	Earthwork and bridge (SF) quantities should be shown for informational purposes. Cost Estimates should clearly state "Bridge Replacement" or "Bridge Widening".
Judgement	100	
Environmental	100	
Right of Way	100	
Utility	100	
Constructability	100	
Schedule	100	

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE



DATE June 30, 2004

FROM Douglas Alan Smith, DAS, District Design Engineer

TO Margaret Pirkle, Assistant Director of Preconstruction

SUBJECT **BRSLB-3104 (4) Baldwin County, P.I. # 245405**
Bridge replacement on SR 243 Business over Fishing Creek
Concept Report

Attached is the original copy of the Concept Report for your further handling for approval in accordance with the Plan Development Process (PDP).

If any further assistance is needed, please contact Alan Smith at (478) 552-4642.

DAS

cc: David Mulling
Harvey Keepler
Phillip Allen
Joe Palladi
Jamie Simpson
Paul Liles
Don Brown

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
PROJECT CONCEPT REPORT

District Two Design Office

Project Number: *BRST-3104 (4)*
County: *Baldwin*
P. I. Number: *245405*

Federal Route Number: *ST3104*
State Route Number: *29*
County Road Number: *None*

Recommendation for approval:

DATE 7-8-04 Alan Smith
Project Manager

DATE 7-8-04 Michael L Adams
District Engineer

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

DATE _____ State Transportation Planning Administrator

DATE _____ State Transportation Programming Engineer

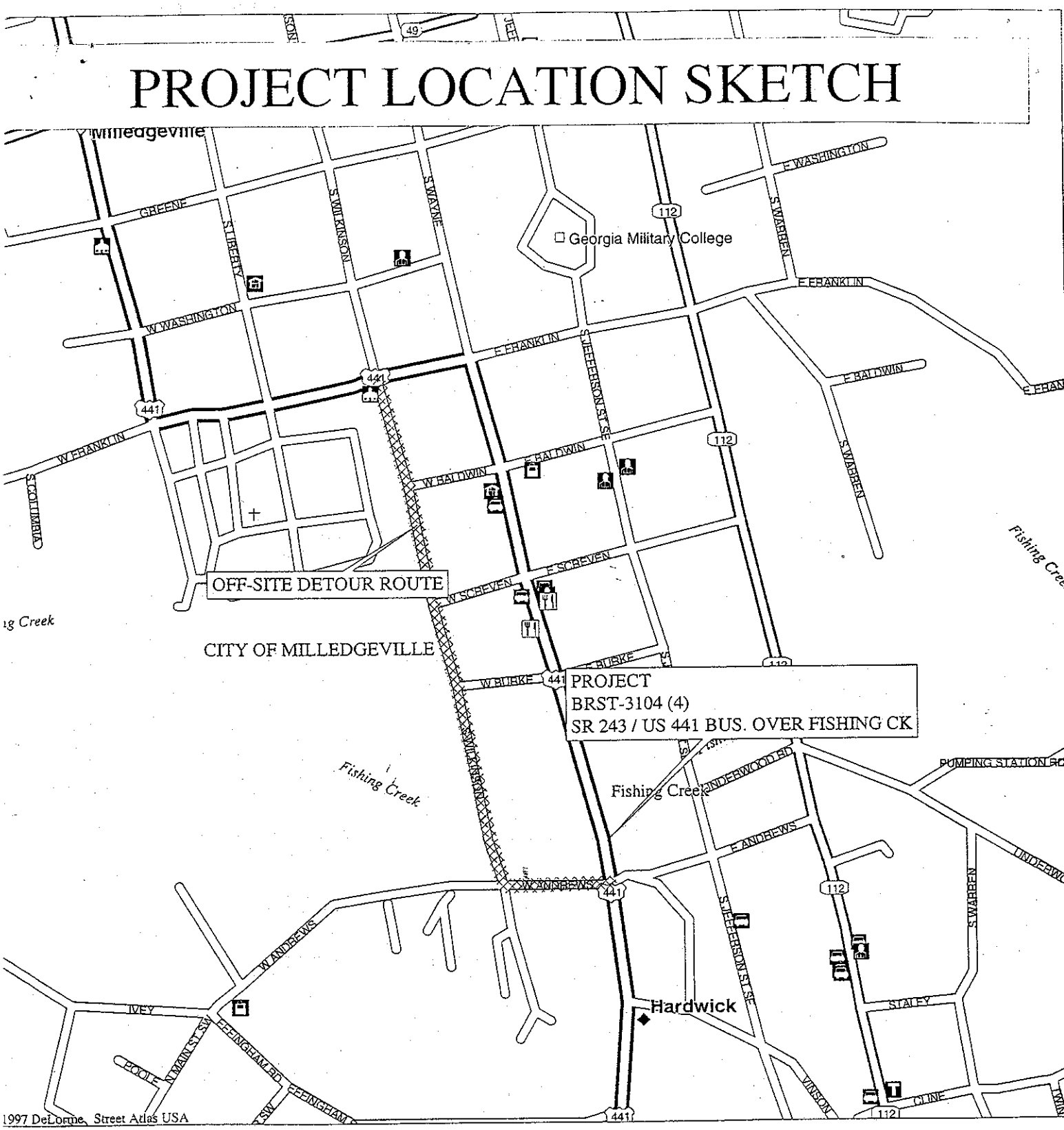
DATE _____ State Environmental/Location Engineer

DATE _____ State Traffic Safety and Design Engineer

DATE _____ Project Review Engineer

DATE _____ State Bridge & Structural Design Engineer

PROJECT LOCATION SKETCH



ag 16.00
ıu Apr 22 12:57 2004
ɔale 1:7,812 (at center)
500 Feet
200 Meters

- Local Road
- State Route
- US Highway
- Railroad
- Point of Interest
- Small Town
- City
- Cemetery
- River/Canal
- Intermittent River

Need and Purpose: *See Attached Sheet.*

Description of the proposed project: *Alternate A - Replace the structurally and functionally deficient bridge on S.R. 243 / U.S. 441 Business at Fishing Creek in the City of Milledgeville with a 228' x 61' reinforced concrete bridge. An off-site detour will be utilized that will follow West Andrews Street to South Wilkinson Street and tie into the existing S.R. 243 / U.S. 441 Business north of the project site.*

Is the project located in a Non-attainment area? ☐ **Yes** ☒ **No**

PDP Classification:

Full Oversight ☐, Exempt ☒, State Funded ☐, or Other ☐

Functional Classification: *Urban Minor Arterial*

U. S. Route Number(s): *ST3104* **State Route Number(s):** *243 / 29*
County Road Number(s): *None*

Traffic (AADT):

Current Year: *14700 (2007)* Design Year: *17000 (2027)*

Existing design features:

- Typical Section: *2 - 11' asphaltic concrete lanes in each direction - The shoulders consists of curb and gutter with 2' grass plots and 5' sidewalks both sides and across the existing bridge.*
- Posted speed: *40 M.P.H.* Maximum degree of curvature: *None*
- Maximum grade: *3%*
- Width of right of way: *60 feet estimated*
- Major structures: *228' long x 55.9' wide reinforced concrete bridge with steel pile and concrete bents, a steel beam superstructure and concrete deck.*
  Sufficiency Rating: 65.4
- Major interchanges or intersections along the project: *None*
- Existing length of roadway: *Approx. 1200' or 0.23 miles*

Proposed Design Features:

- Proposed typical section(s): *4 - 11' Asphaltic Concrete travel lanes with curb and gutter and 5' sidewalks both sides, 6' sidewalks will be provided across the proposed bridge.*
- Proposed Design Speed Mainline: *40 mph*
- Proposed Maximum grade Mainline: *3%*
- Maximum grade allowable Mainline: *8%*
- Proposed Maximum grade Side Street: *No side streets are involved with this project*
- Maximum grade allowable on Side Streets: *No side streets are involved with this project*
- Proposed Maximum grade driveway: *15%*
- Proposed Maximum degree of curve: *3 Degree 0 Min*
- Maximum degree allowable: *12 Deg 15 min*
- Right of way
  - Width: *100*
  - Easements: Temporary ☐, Permanent ☐, Utility ☐, Other ☐.
  - Type of access control: Full ☐, Partial ☐, By Permit ☒, Other ☐.
  - Number of parcels: *4* Number of displacements: *0*
    - Business: *0*
    - Residences: *0*
    - Mobile homes: *0*
    - Other: *0*
- Structures:
  - Bridges: *Proposed 228' x 60' Reinforced Concrete Bridge*
  - Retaining walls: *None*
- Major intersections and interchanges: *None*
- Traffic control during construction: *An off-site detour will be utilized during the construction of this project. The route will follow West Andrews Street, South Wilkinson Street and the existing S.R. 243 / U.S. 441 as shown on the attached Location Sketch. The proposed detour length is 0.57 miles (3000 Lin Ft) which will be milled and resurfaced after use.*
- Design Exceptions to controlling criteria anticipated:

	UNDETERMINED	YES	NO
HORIZONTAL ALIGNMENT:	☐	☐	☒
ROADWAY WIDTH:	☐	☐	☒
SHOULDER WIDTH:	☐	☐	☒
VERTICAL GRADES:	☐	☐	☒
CROSS SLOPES:	☐	☐	☒
STOPPING SIGHT DISTANCE:	☐	☐	☒
SUPERELEVATION RATES:	☐	☐	☒
HORIZONTAL CLEARANCE:	☐	☐	☒
SPEED DESIGN:	☐	☐	☒
VERTICAL CLEARANCE:	☐	☐	☒
BRIDGE WIDTH:	☐	☐	☒
BRIDGE STRUCTURAL CAPACITY:	☐	☐	☒

- Design Variances: *None*
- Environmental concerns: *There is a potential hazardous waste site located just north of the project limits. If the project limit is extended, this could become a concern. Also, the existing bridge was built in 1949 and could be historic.*

- Anticipated Level of environmental analysis:
  - Are Time Savings Procedures appropriate? Yes ☒, No ☐,
  - Categorical exclusion ☒,
  - Environmental Assessment/Finding of No Significant Impact (FONSI) ☐, or
  - Environmental Impact Statement (EIS) ☒.
- Utility involvements:
  - *Telephone - Alltel Georgia, Inc.*
  - *Power – Georgia Power Company*
  - *Water – City of Milledgeville*
  - *Sewer – City of Milledgeville*
  - *Gas – Atlanta Gas Light Company*
  - *Cable TV – Charter Communications, Inc.*

Project responsibilities:

- Design: *GDOT - District Two Design Office*
- Right of Way Acquisition: *GDOT - District Two Right of Way Office*
- Relocation of Utilities: *GDOT - District Two Utilities Office*
- Letting to contract: *GDOT - Contracts Administration*
- Supervision of construction: *GDOT - Milledgeville Area Engineer's Office*
- Providing material pits: *In Contract*
- Providing detours: *In Contract*

Coordination

- Concept meeting date: *6/29/04*
- P. A. R. meetings: *Not Required*
- FEMA, USCG, and/or TVA: *FEMA coordination will be required.*
- Public involvement: *A Public Information Meeting will be required for the off-site detour*
- Local government Commitments: *Baldwin County and the City of Milledgeville were requested to fund the relocation of utilities in July 1999 with no response. LGPA will be re-submitted.*
- Other projects in the area: *EDS-441 (23) Baldwin County, P.I. # 261696*

Scheduling – Responsible Parties' Estimate

- Time to complete the environmental process: *12 months*
- Time to complete preliminary construction plans: *12 months*
- Time to complete right of way plans: *6 months*
- Time to complete the Section 404 Permit: *12 months*
- Time to complete final construction plans: *6 months*
- Time to complete to purchase right of way: *6 months*

Other alternates considered:

1. *Alternate B - Stage construct the bridge while maintaining traffic on the existing roadway. Stage One - The west side of the bridge would be removed and replaced while traffic would be maintained on the east side. Stage Two - Once the west portion of bridge is constructed, traffic would be diverted to it, and the east side of the existing bridge removed and reconstructed. This alternate was found to be unfeasible due to the configuration of the 3 column concrete intermediate bents that would prevent the necessary joints to be cut for the partial removal of the existing bridge. This is per Brian Summers with the GDOT Bridge Maintenance Office.*
2. *Alternate C - No Build*
3. *This office recommends the approval of Alternate A*

Comments: *See the attached minutes form the Concept Team Meeting*

Attachments:

1. Need & Purpose,
2. Traffic Data,
3. Cost Estimates:
    a. Construction including E&C,
    b. Utilities,
4. Typical sections,
5. Pavement Design,
6. Location and Design Notice,
7. LGPA
8. Minutes of Concept Team Meeting

NEED AND PURPOSE STATEMENT

BRST-3104 (4) BALDWIN COUNTY
P.I. # 245405
Bridge Replacement on S.R. 243 / U.S. 441 over Fishing Creek in the City of Milledgeville

Project Background

The existing bridge was constructed in 1949 The present load capacity is H-20 and the sufficiency rating for the structure is 65.4. The Department has established a policy to replace all bridges with 10" H-Piles and this bridge meets the criteria. Secondary to the bridge's structural insufficiencies, it is also functionally obsolete due to insufficient width and has been designated for replacement by the State Bridge Maintenance office.

Traffic Volumes

1998 AADT = 13300
2007 AADT = 14700
2027 AADT = 17000
K= 9%
D= 55%
T= 1.5%
24 Hour T= 2.5%
S.U.= 2%
Comb.= 0.5%

Land Use / Development

Land use along the project limits is heavily developed. There is a mix of shopping centers, office space buildings, industrial facilities and residential housing along this route. The area in the proximity to the bridge is vegetated and not developed. There has been little development in this area since the construction of the West Milledgeville By-Pass. Also, there is a current project to further lessen traffic flow in this downtown area, EDS-441 (23), Baldwin County, P.I. # 261696

Logical Termini

This project will begin at the intersection of S.R. 243 / U.S. 441 Business and West Andrews Street (M.P. 9.73) and continue north to (M.P. 9.96). The project length is 0.23 miles. This project will not create a need for any additional improvements to the route because the new bridge width will satisfy the operational capacity. The termini of the project should only include roadway length to replace the structurally deficient bridge and construct the necessary approaches.

Agency Coordination

This project is located within a mapped FEMA floodplain which will require FEMA coordination. Also, a Corps of Engineer's 404 Permit may be required.

Need and Purpose

The need exists to: replace the structurally and functionally deficient bridge on S.R. 243 / U.S. 441 Business over Fishing Creek and construct guardrail and anchorages to meet current criteria. To provide adequate width for both vehicular and pedestrian traffic flows.

Department of Transportation
State of Georgia

INTERDEPARTMENT CORRESPONDENCE

FILE BRST-3104(4), Baldwin County
P.I. # 245405

OFFICE Environment/Location

DATE September 19, 2001

FROM Harvey D. Keepler, State Environment/Location Engineer

TO Jimmy Chambers, State Consultant Design Engineer.
Attn. Ted Cashin

SUBJECT Traffic Assignment for S.R. 243/U.S. 441 Bus. @ Fishing Creek South Milledgeville in Baldwin County.

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

1998 AADT = 13300
2007 AADT = 14700
2027 AADT = 17000
K = 9%
D = 55%
T = 1.5%
24 Hour T = 2.5%
S.U. = 2%
COMB. = 0.5%

If you have any questions concerning this information please contact Abby Ebodaghe at (404) 699-4461.

HDK/AFE

Estimate Report for file "245405"

Section Roadway

Item Number	Quantity	Units	Unit Price	Item Description	Cost
150-1000	1.00	LS	75000.00	TRAFFIC CONTROL -	75000.0
210-0100	1.00	LS	100000.00	GRADING COMPLETE -	100000.0
310-1201	900.00	TN	20.99	GR AGGR SUBBASE CRS, INCL MATL	18891.0
318-3000	500.00	TN	15.84	AGGR SURF CRS	7920.0
400-3101	400.00	TN	43.63	ASPH CONC 12.5 MM SUPERPAVE, GP 2 ONLY, INCL BITUM MATL,	17452.0
402-1812	100.00	TN	35.97	RECYCLED ASPH CONC LEVELING, INCL BITUM MATL & H LIME	3597.0
402-3111	300.00	TN	30.76	RECYCLED ASPH CONC 19 MM MIX, GP 1 OR 2, INCL BITUM MATL &	9228.0
402-3121	600.00	TN	34.63	RECYCLED ASPH CONC 25 MM SUPERPAVE, GP 1 OR 2, INCL BITUM	20778.0
413-1000	350.00	GL	0.88	BITUM TACK COAT	308.0
432-5010	2740.00	SY	1.63	MILL ASPH CONC PVMT, VARIABLE DEPTH	4466.2
433-1100	510.00	SY	107.71	REINF CONC APPROACH SLAB, INCL CURB	54932.1
441-0018	67.00	SY	31.97	DRIVEWAY CONCRETE, 8 IN TK	2141.99
441-4030	203.00	SY	32.58	CONC VALLEY GUTTER, 8 IN	6613.74
441-6222	2400.00	LF	10.01	CONC CURB & GUTTER, 8 IN X 30 IN, TP 2	24024.0
444-1000	120.00	LF	2.42	SAWED JOINTS IN EXIST PAVEMENTS - PCC	290.4
446-3000	100.00	LF	1.95	PVMT REINF FABRIC STRIPS, SELF ADHESIVE	195.0
540-0001	1.00	EACH	904020.00	CONSTR OF BRIDGE COMPLETE	904020.0
540-1102	1.00	LS	65000.00	REMOVAL OF EXISTING BR, BR NO - 1	65000.0
550-4118	3.00	EA	282.50	FLARED END SECTION 18 IN, SIDE DRAIN	847.5
603-2024	700.00	SY	39.38	STN DUMPED RIP RAP, TP 1, 24 IN	27566.0
603-7000	700.00	SY	3.14	PLASTIC FILTER FABRIC	2198.0
610-1075	4.00	EA	82.77	REM GUARDRAIL ANCH, ALL TYPES	331.08
634-1200	10.00	EA	80.40	RIGHT OF WAY MARKERS	804.0
641-1100	84.00	LF	41.57	GUARDRAIL, TP T	3491.88
641-1200	475.00	LF	9.10	GUARDRAIL, TP W	4322.5
641-5001	2.00	EA	401.71	GUARDRAIL ANCHORAGE, TP 1	803.42
641-5012	2.00	EA	1263.48	GUARDRAIL ANCHORAGE, TP 12	2526.96
668-1100	6.00	EA	1635.80	CATCH BASIN, GP 1	9814.8
668-1110	20.00	LF	166.35	CATCH BASIN, GP 1, ADDL DEPTH	3327.0
668-5000	3.00	EA	1211.93	JUNCTION BOX	3635.79
				Section Sub Total:	**$1,374,526.36**

Section Temporary Erosion Control

Item Number	Quantity	Units	Unit Price	Item Description	Cost
163-0232	1.00	AC	435.70	TEMPORARY GRASSING	435.7
163-0240	11.00	TN	213.84	MULCH	2352.24
163-0300	2.00	EA	1074.69	CONSTRUCTION EXIT	2149.38
163-0520	500.00	LF	10.50	CONSTRUCT AND REMOVE TEMPORARY PIPE SLOPE DRAIN	5250.0
163-0530	300.00	LF	1.83	CONSTRUCT AND REMOVE BALED STRAW EROSION CHECK	549.0
165-0010	300.00	LF	1.06	MAINTENANCE OF TEMPORARY SILT FENCE, TP A	318.0
165-0030	600.00	LF	1.29	MAINTENANCE OF TEMPORARY SILT FENCE, TP C	774.0
165-0070	150.00	LF	1.17	MAINTENANCE OF BALED STRAW EROSION CHECK	175.5
165-0101	2.00	EA	336.19	MAINTENANCE OF CONSTRUCTION EXIT	672.38
167-1000	2.00	EA	3742.84	WATER QUALITY MONITORING AND SAMPLING	7485.68
167-1500	12.00	MO	594.20	WATER QUALITY INSPECTIONS	7130.40
171-0010	300.00	LF	1.76	TEMPORARY SILT FENCE, TYPE A	528.0
171-0030	600.00	LF	3.06	TEMPORARY SILT FENCE, TYPE C	1836.0
700-7000	1.00	TN	51.52	AGRICULTURAL LIME	51.52
700-7010	1.00	GL	18.43	LIQUID LIME	18.43
700-8000	1.00	TN	236.56	FERTILIZER MIXED GRADE	236.56
				Section Sub Total:	**$29,962.79**

Section Erosion Control

Item Number	Quantity	Units	Unit Price	Item Description	Cost
163-0240	8.00	TN	213.84	MULCH	1710.72
700-6910	1.00	AC	749.98	PERMANENT GRASSING	749.98
700-7000	1.00	TN	51.52	AGRICULTURAL LIME	51.52
700-7010	2.00	GL	18.43	LIQUID LIME	36.86
700-8000	1.00	TN	236.56	FERTILIZER MIXED GRADE	236.56

Section Sub Total:	**$2,785.64**

Section SIGNING AND MARKING

Item Number	Quantity	Units	Unit Price	Item Description	Cost
636-1020	36.00	SF	14.82	HIGHWAY SIGNS, TP 1 MATL, REFL SHEETING, TP 3	533.52
636-1031	36.00	SF	17.19	HIGHWAY SIGNS, TP 1 MATL, REFL SHEETING TP 6	618.84
636-2080	64.00	LF	8.15	GALV STEEL POSTS, TP 8	521.6
636-3010	2.00	EA	213.26	GROUND-MOUNTED BREAKAWAY SIGN SUPPORT	426.52
653-1501	2400.00	LF	0.24	THERMOPLASTIC SOLID TRAF STRIPE, 5 IN, WHITE	576.0
653-1502	2400.00	LF	0.23	THERMOPLASTIC SOLID TRAF STRIPE, 5 IN, YELLOW	552.0
653-1704	22.00	LF	3.65	THERMOPLASTIC SOLID TRAF STRIPE, 24 IN, WHITE	80.3
653-3501	2400.00	GLF	0.16	THERMOPLASTIC SKIP TRAF STRIPE, 5 IN, WHITE	384.0
654-1001	30.00	EA	3.39	RAISED PVMT MARKERS TP 1	101.7
654-1003	30.00	EA	3.54	RAISED PVMT MARKERS TP 3	106.2
657-3054	456.00	GLF	1.97	PREFORMED PLASTIC SKIP PVMT MKG, 5 IN, WHITE, TP PB	898.31
657-6054	456.00	LF	3.97	PREFORMED PLASTIC SOLID PVMT MKG, 5 IN, YELLOW, TP PB	1810.32
				Section Sub Total:	**$6,609.32**

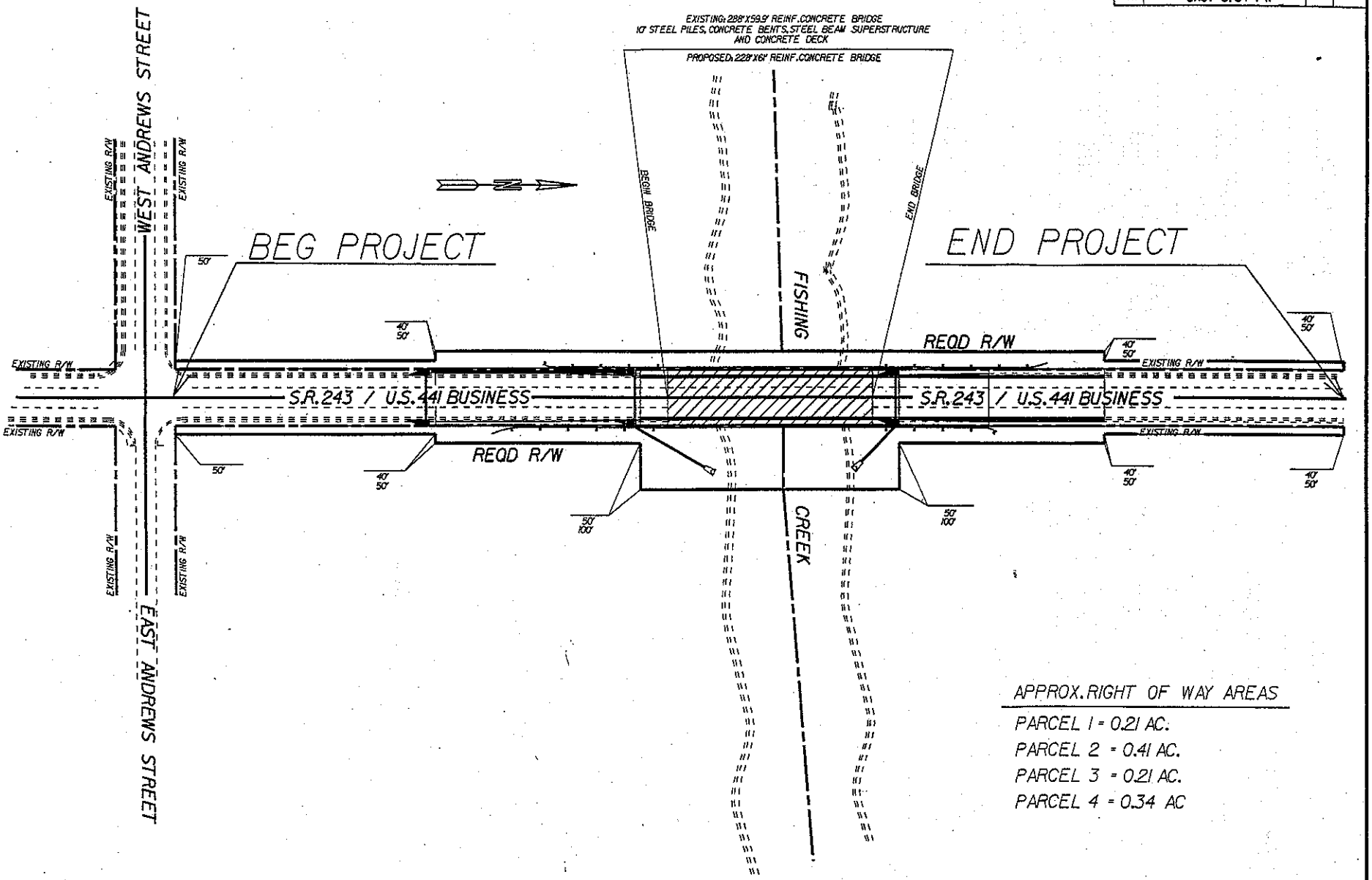
Section OFF-SITE DETOUR

Item Number	Quantity	Units	Unit Price	Item Description	Cost
402-3130	1100.00	TN	36.04	RECYCLED ASPH CONC 12.5 MM SUPERPAVE, GP 2 ONLY, INCL BITUM	39644.0
413-1000	200.00	GL	0.91	BITUM TACK COAT	182.0
432-5010	8000.00	SY	1.61	MILL ASPH CONC PVMT, VARIABLE DEPTH	12880.0
				Section Sub Total:	**$52,706.00**

Total Estimated Cost: $1,466,590.11

Subtotal Construction Cost	**$1,466,590.11**
E&C Rate 10.0 %	$146,659.01
Inflation Rate 5.0 % @ 5.0 Years	$445,710.99
Total Construction Cost	**$2,058,960.11**
Right Of Way	$542,500.00
ReImb. Utilities	$28,300.00
Grand Total Project Cost	**$2,629,760.11**

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	BRST-3184 (4)		



APPROX. RIGHT OF WAY AREAS

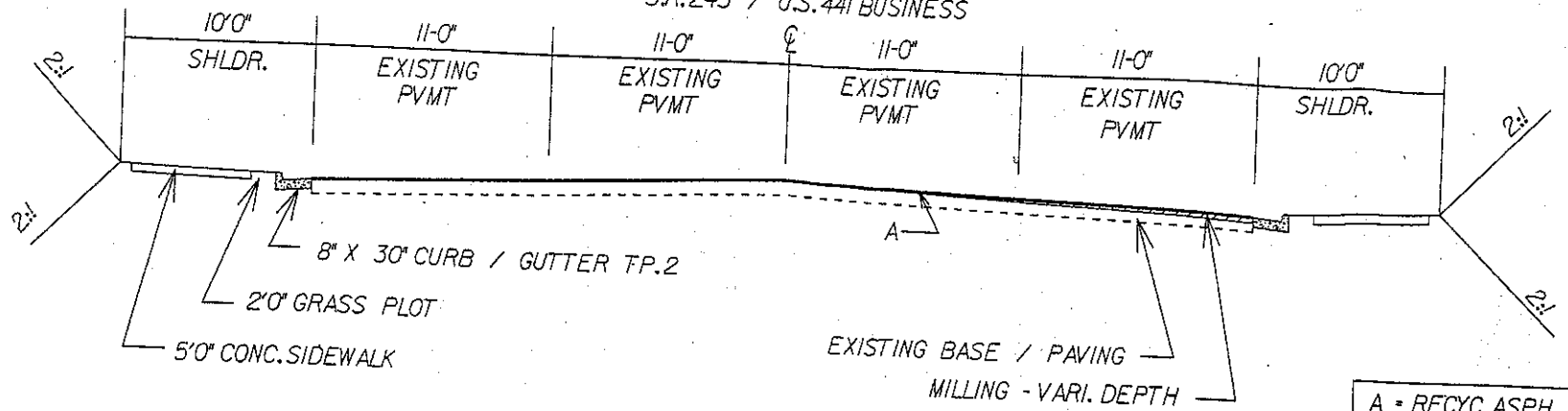
PARCEL 1 = 0.21 AC.
PARCEL 2 = 0.41 AC.
PARCEL 3 = 0.21 AC.
PARCEL 4 = 0.34 AC

SHOWDATFTIMESSSSSSS DGNSSPECIFICATIONSSSSSSSSSSSSSSSSSSSSSS

TYPICAL SECTION

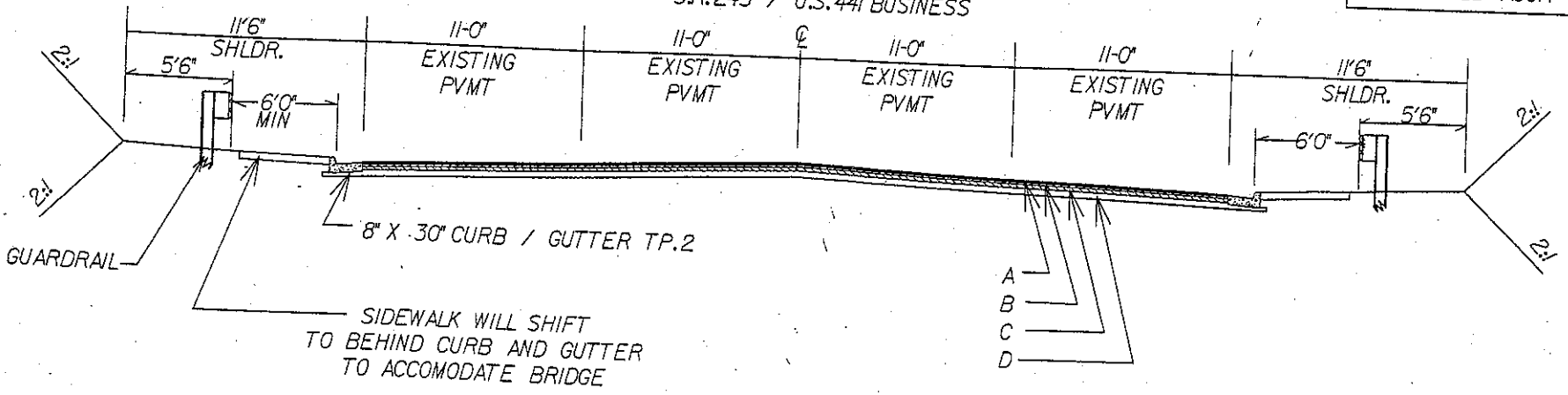
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	BRST-3104 (4)		

S.R.243 / U.S.441 BUSINESS



A = RECYC. ASPH CONC, 12.5 mm
B = RECYC. ASPH CONC, 19 mm
C = RECYC. ASPH CONC 25 mm
D = GRADED AGGR SUBBASE, 7"

S.R.243 / U.S.441 BUSINESS



FLEXIBLE PAVEMENT DESIGN ANALYSIS

Project: BRST-3104 (4) **County:** Baldwin
P.I. no.: 245405
Description: Bridge Replacement on SR 243 / US 441 Bus. over Fishing Creek

Traffic Data (NOTE: AADTs are one-way)
24-hour Truck Percentage: 2.50%
AADT initial year of design period: 7,350 vpd (2007)
AADT final year of design period: 8,500 vpd (2027)
Mean AADT (one-way): 7,925 vpd

Design Loading

Mean AADT		LDF		Trucks		18-K ESAL		Total Daily Loads
7,925	*	0.80	*	0.025	*	0.62	=	99

Total predicted design period loading = 99 * 20 * 365 = 722,700

Design Data
Terminal Serviceability Index: 2.50
Soil Support: 3.00
Regional Factor: 1.60

PROPOSED FLEXIBLE PAVEMENT STRUCTURE

Material	Thickness mm	Thickness (in.)	Structural Coefficient	Structural Value
12.5 mm Superpave	38	(1.50)	0.0173	0.66
mm Superpave	50	(1.97)	0.0173	0.86
25 mm Superpave	26	(1.02)	0.0173	0.45
	74	(2.91)	0.0118	0.87
Graded Aggregate Base	175	(6.89)	0.0063	1.10

Required SN = 4.04 Proposed SN = 3.94

>>> Proposed pavement is 2.5% Underdesign <<<

Remarks:

Prepared by Alan Smith - District Design Squad Ldr. April 22, 2004
Date

Recommended _____
State Materials & Research Engineer **Date**

Approved _____
District Engineer **Date**

Department of Transportation

State of Georgia

Interdepartmental Correspondence

FILE R/W Cost Estimate **OFFICE** Atlanta
DATE May 12, 2004

TM / GAM

FROM Terry McCollister, Right of Way Administrator

TO George M. Brewer, District Two Design Engineer

Attention: Alan Smith

SUBJECT **Preliminary Right of Way Cost Estimate**
Project: BRST-3104(4)Baldwin
P.I. No.: 245405
Description: SR 243 / US 441 Business over Fishing Creek in the City of Milledgeville

As per your request, attached is a copy of the approved Preliminary Right of Way Cost Estimate on the above referenced project.

If you have any questions, please contact Jerry Milligan at the Chamblee Right of Way Office at (770) 986-1541.

TM:GAM:jm
Attachments
c: David Mulling, Engineering Services
Phil Copeland, R/W
Windy Bickers, Financial Management
File

Preliminary Right of Way Cost Estimate

Terry McCollister
Right of Way Administrator
By: Jerry Milligan

Date: May 12, 2004
Project: BRST-3104(4)Baldwin
Existing/Required R/W: Varies/Varies
Project Termini: SR 243 / US 441 Business over Fishing Creek in the City of Milledgeville
Project Description: SR 243 / US 441 Business over Fishing Creek in the City of Milledgeville

P.I. Number: 245405
No. Parcels: 4

Land: Commercial : 1.17 acres @ $ 125,000 / acre	$ 146,250
Improvements : misc. site improvements	10,000
Relocation: Residential (0) Commercial (0)	0
Damage : Proximity (0) parcel	0
Net Cost	$ 156,250

Net Cost		$ 156,250
Scheduling Contingency	55 %	85,937
Adm/Court Cost	60 %	145,312
Inflation Factor	40 %	154,999
		$ 542,498

Total Cost $ 542,500

Baldwin County Land Sales

Highest & Best Use	Size (acres)	Value/ac	Sales price
Commercial	.50	$ 122,000	$ 61,000
	5.30	$ 83,000	$ 440,000
	.78	$ 98,500	$ 98,600

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

OFFICE: Tennille Utilities

FILE BRST-3104 (4) - Baldwin County
P.I. Number: 245405
Bridge Replacement on S.R.243 / U.S.441 Business
over Fishing Creek in the City of Milledgeville

DATE: May 24, 2004

FROM Jack D. Cooper, Jr., District Utilities Engineer

TO David Griffith, District Preconstruction Engineer
Attention: George Brewer

SUBJECT **UTILITY COST ESTIMATE**

Attached is a Utility Cost Estimate dated May 24, 2004 on the above referenced project. The total estimated amount of eligible utility relocation cost for this project is $154,000.00.

The estimate was prepared by Nick Everett of this office and is based on concept drawings provided by your office, dated April 27, 2004 and an on-site inspection performed on May 3, 2004. Unit costs are based on the "mean item summary" and former "force account agreements".

All of the above information is an estimate and may be revised when project plans are developed and prior rights research has been performed. If you should have questions, please contact Nick Everett in the Utilities Section of this office at 478-552-4606.

JDC:KNE
cc: Jeff Baker / Scott Greene w/attachment
Jamie Simpson w/attachment
Christa McKinney w/attachment

UTILITY COST ESTIMATE

PROJECT #	COUNTY	PROJECT DESCRIPTION	P.I. NUMBER	LAYOUT DATE
BRST-3104 (4)	Baldwin	Bridge Replacement on S.R. 243 / U.S. 441 Business over Fishing Creek in the City of Milledgeville	245405	27-Apr-04

PRIVATE UTILITY QUANTITIES	PUBLIC UTILITY QUANTITIES	UNITS	ITEM DESCRIPTION	UNIT PRICE	PRIVATE UTILITY COST	PUBLIC UTILITY COST
			POWER			
			Georgia Power Company	$$$$$$$		
2		Each	Relocate Distribution Power Poles - 50' - Class 2 - Wood	$7,000.00	$14,000.00	
			Georgia Power Company has an existing 3 phase pole line located on the west side on U.S.441 (Business) outside the existing right of way. All adjustments and/or relocations made to their pole line shall be eligible for reimbursement. Information for this estimate was gathered during an on-site inspection.			
				SUB - TOTAL	**$14,000.00**	
			TELEPHONE			
			Alltel Communications, Inc.			
1		Each	Adjust Existing Telephone Manhole	$1,500.00	$1,500.00	$1,500.00
			Alltel has an existing 3'x3' duct located outside the existing right of way on the west side of U.S.441 (Business). This duct houses a 900 pr, 400 pr, 1800 pr and a 54 fiber cable. Alltel accesses this duct through a manhole located off the existing right of way near the southwest end of the bridge. Adjustment to this manhole and any other relocations to the existing duct shall be elegible for reimbursement. Alltel also has an existing pole line located on the east side of U.S.441 (Business) within the existing and should not be eligible for reimbursement. Information for this estimate was provided by Chet Demmon with the Alltel Communications, Inc.			
				SUB-TOTAL	**$1,500.00**	**$1,500.00**
			WATER			
			City of Milledgeville			
	400	Lin Ft	Relocate Water Main - 12" D.I.	$53.00		$21,200.00
	400	Lin Ft	Relocate Water Main - 8" D.I.	$35.00		$14,000.00
			These facilities are located within the existing Right of Way throughout the project limits that should not be eligible for reimbursement. Information for this estimate was provided by Richard Turner with the City of Milledgeville.			
				SUB - TOTAL		**$35,200.00**
			SEWER			
			City of Milledgeville			
	800	Lin Ft	Relocate Sanitary Sewer - 30" Terra Cotta	$100.00		$80,000.00
	6	Each	Sanitary Sewer Manhole	$1,500.00		$9,000.00
			These facilities are located within the existing Right of Way throughout the project limits that should not be eligible for reimbursement. Information for this estimate was provided by Richard Turner with the City of Milledgeville.			
				SUB-TOTAL		**$89,000.00**

			CATV			
			Charter Communications, Inc.			
500		Lin Ft	Relocate Coaxial Cable	$7.00	$3,500.00	
			Charter Communication's has an existing cable attached to Georgia Power's pole line which is located outside the existing right of way. These facilities should be eligible for reimbursement.			
				SUB-TOTAL		
			GAS			
			Atlanta Gas Light Company			
400		Lin Ft	Relocate HPS Gas Main - 6"	$32.00	$12,800.00	
2		Each	Tie-Ins	$2,000.00		
			Atlanta Gas Light has an existing 6" High Pressure gas main attached to the side of the bridge which should not be eligible for reimbursement. Once the existing gas main leaves the bridge it was placed outside the existing right of way and should be eligible for reimbursement.			
				SUB-TOTAL	$12,800.00	

Revised:		TOTAL PRIVATELY OWNED UTILITY RELOCATION COST	$28,300.00
Revised:		TOTAL PUBLICLY OWNED UTILITY RELOCATION COST	$125,700.00
Revised:		TOTAL POTENTIAL UTILITY RELOCATION COST FOR PROJECT	$154,000.00
Estimate Prepared By:	Nick Everett - Utilities Engineer	DATE:	24-May-04

Unit Costs are based on former "Force Account Agreements" and the Department of Transportation's "Mean Item Index"

The information above is an estimate and is subject to change as project plans are developed and prior rights research has been performed.

NOTICE OF LOCATION AND DESIGN APPROVAL

BRST-3104 (4) BALDWIN COUNTY
P.I. NUMBER 245405

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

The date of location and design approval was August 2, 2004
Date of Approval

The project proposes to replace the structurally deficient bridge on S.R. 243 / U.S. 441 over Fishing Creek in the City of Milledgeville.

Drawings of the proposed project are on file and are available for inspection at the Georgia Department of Transportation.

Kraig Collins – Area Engineer
Kraig.Collins@dot.state./ga.us
161 Blandy Road
Milledgeville, Georgia 31061

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

GEORGE M. BREWER
PRECONSTRUCTION ENGINEER
P.O. BOX 8
TENNILLE, GEORGIA 31089
478-552-4629

Any written request or communication in reference to this project **SHOULD** include the Project and PI numbers as noted at the top of this notice.

J. TOM COLEMAN, JR.
COMMISSIONER
(404) 656-5206

FRANK L. DANCHETZ
CHIEF ENGINEER
(404) 656-5277

Department of Transportation
State of Georgia

HAROLD E. LINNENKOHL
DEPUTY COMMISSIONER
(404) 656-5212

EAR MAHFUZ
TREASURER
(404) 656-5224

INTERDEPARTMENT CORRESPONDENCE

May 22, 2002

FROM: Buddy Gratton, P.E., State Maintenance Engineer

TO: Ted Cashin, Office of Consultant Design

SUBJECT: Bridge Replacement

BRST-3104(4) / Baldwin
Structure ID 009-0014-0
Location ID 009-00243D-009.89N
SR 243 / US 441 Business over Fishing Creek

This bridge was built in 1949 and consists of steel pile and concrete bents, steel beam superstructure, and a concrete deck. The original design load capacity is H-20. The substructure is also supported by 10 inch H-Piles. The sufficiency rating on the structure is 65.4, and the bridge is classified as Functionally Obsolete and requires widening. However, in accordance with DOT policy 2405-1, we recommend that this bridge be replaced though due to unacceptable load capacity and pile size. Due to this criteria, no additional cost analysis or coring by the lab will be required. This bridge does not currently qualify for federal replacement BR funding but does qualify for federal bridge widening funds, which can be used toward replacement up to the estimated cost of widening. The remaining funds would have to come from another funding source.

If further information is required, please contact Brian Summers at (404) 635-8179.

BG/BKS

cc: Percy Middlebrooks

CONCEPT TEAM MEETING MINUTES

Project Number: BRSLB-3104 (4)
P.I. Number: 245405
County: Baldwin

Date of Meeting:

6/29/04

Personnel Present:

Alan Smith	District Design Engineer	478-552-4642
Eddie Wiggins	District Environmentalist	478-553-2283
Nick Everett	District Utilities	478-552-4606
Michael Taylor	Milledgeville Construction	478-445-5130
Lee Washington	City of Milledgeville	478-414-4036
Kraig Collins	Milledgeville Construction	478-445-5130
Kedrick Collins	District Traffic Ops	478-552-4622
Chet Demmon	AllTel	478-454-3310
Richard Turner	City of Milledgeville	478-414-4036
James H. Smith	District Construction	478-553-2331
Mike Mower	Charter Communications	478-452-7704
Craig Lingoll	Charter Communications	478-452-7704
Randall Thomas	Atlanta Gas Light	478-414-4702
Barry Jarrett	City of Milledgeville	478-414-4052

Utilities:

The City of Milledgeville has 2 water mains and a sewer main that will be in conflict with the proposed bridge - These are located on the existing right of way. Atlanta Gas Light Company has an attachment to the existing bridge and is outside of the existing right of way. Georgia Power Company has both distribution and transmission facilities within the project limits that will have to be relocated due to crane work at the bridge - Alltel and Charter communications have facilities attached to these pole lines as well. Those lines are located outside the existing right of way. See utility cost estimate for breakdown of relocation cost.

The Alltel representative stated that they had several large facilities located underneath the existing bridge and asked if those could be avoided if possible. Alan Smith stated that if the facilities can be located accuratley and as soon as possible once plans begin that the DOT would make an effort to avoid as much of them as possible. The Alltel representative then stated that they would have an extensive relocation time for these facilities and Nick Everett informed him to turn in a Utility Adjustment Schedule as soon as possible so that it can be coordinated with construction.

Several of the utility companies asked how long it would be before this project came to pass. Alan Smith stated that this was the concept phase and that the project is currently scheduled for sometime in early 2007.

Traffic Operations:

Kedrick Collins with GDOT Traffic Operations stated that he would need room to place signal loop lead-ins on the north approach of the bridge. Also, the bridge plans should make provisions for 2 - 4" conduits for future attachments of signal interconnect cable. He also asked if 2 timber signal poles could be replaced with strain poles at the intersection of SR 243 Business and Andrews Street. This is within the project limits and will facilitate the relocation of aerial utilities as well.

Construction:

James Smith with GDOT construction stated that it would be better to perform a lane closure on SR 243 Business and detour one lane of traffic along Andrews Street during construction instead of attempting to install a dual left turn lane at the intersection of SR 243 and Andrews Street. The Concept party agreed with this and it will be implemented.

Local Government Comments:

The City of Milledgeville was present at the meeting but offered no comments.

Environmental:

Eddie Wiggins with GDOT Environmental stated that there is a wrecker service located on the northwest quadrant of the bridge that appears to be outside of the current project limits. However, if the project limits should extend, this would be a potential hazzardous waste site. Also, the existing bridge was constructed in 1949 and it may be historic. He stated that it may require a programmatic 4-F permit.

Design:

Alan Smith of GDOT design and Jimmy Smith with GDOT construction discussed the use of the off system routes for a detour with this project. All of the proposed routes are 4 lane streets with curb and gutter and sidewalk. However, once truck traffic uses this route, the route will need to be milled and inlayed and resurfaced to repair any potholes, rutting, etc.

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
PROJECT CONCEPT REPORT

District Two Design Office

Project Number: *BRST-3104 (4)*
County: *Baldwin*
P. I. Number: *245405*

Federal Route Number: *ST3104*
State Route Number: *29*
County Road Number: *None*

Recommendation for approval:

DATE _____ _____
Project Manager

DATE _____ _____
District Engineer

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

DATE _____ _____
State Transportation Planning Administrator

DATE 7-6-04 James Simpson
State Transportation Programming Engineer

DATE _____ _____
State Environmental/Location Engineer

DATE _____ _____
State Traffic Safety and Design Engineer

DATE _____ _____
Project Review Engineer

DATE _____ _____
State Bridge & Structural Design Engineer

BRST-3104 (4) Baldwin County, P.I. # 245405

Bridge Widening and Rehabilitation

Section Roadway

Item Number	Quantity	Units	Unit Price	Item Description	Cost
150-1000	1.00	LS	75000.00	TRAFFIC CONTROL -	75000.0
210-0100	1.00	LS	100000.00	GRADING COMPLETE -	100000.0
310-1201	900.00	TN	20.99	GR AGGR SUBBASE CRS, INCL MATL	18891.0
318-3000	500.00	TN	15.84	AGGR SURF CRS	7920.0
400-3101	400.00	TN	43.63	ASPH CONC 12.5 MM SUPERPAVE, GP 2 ONLY, INCL BITUM MATL,	17452.0
402-1812	100.00	TN	35.97	RECYCLED ASPH CONC LEVELING, INCL BITUM MATL & H LIME	3597.0
402-3111	300.00	TN	30.76	RECYCLED ASPH CONC 19 MM MIX, GP 1 OR 2, INCL BITUM MATL &	9228.0
402-3121	600.00	TN	34.63	RECYCLED ASPH CONC 25 MM SUPERPAVE, GP 1 OR 2, INCL BITUM	20778.0
413-1000	350.00	GL	0.88	BITUM TACK COAT	308.0
432-5010	2740.00	SY	1.63	MILL ASPH CONC PVMT, VARIABLE DEPTH	4466.2
433-1100	510.00	SY	107.71	REINF CONC APPROACH SLAB, INCL CURB	54932.1
441-0018	67.00	SY	31.97	DRIVEWAY CONCRETE, 8 IN TK	2141.99
441-4030	203.00	SY	32.58	CONC VALLEY GUTTER, 8 IN	6613.74
441-6222	2400.00	LF	10.01	CONC CURB & GUTTER, 8 IN X 30 IN, TP 2	24024.0
444-1000	120.00	LF	2.42	SAWED JOINTS IN EXIST PAVEMENTS - PCC	290.4
446-3000	100.00	LF	1.95	PVMT REINF FABRIC STRIPS, SELF ADHESIVE	195.0
540-0001	1.00	EACH	611040.00	WIDEN AND REHAB EXIST BRIDGE	611040.0
540-1102	1.00	LS	65000.00	REMOVAL OF EXISTING BR, BR NO - 1	65000.0
550-4118	3.00	EA	282.50	FLARED END SECTION 18 IN, SIDE DRAIN	847.5
603-2024	700.00	SY	39.38	STN DUMPED RIP RAP, TP 1, 24 IN	27566.0
603-7000	700.00	SY	3.14	PLASTIC FILTER FABRIC	2198.0
610-1075	4.00	EA	82.77	REM GUARDRAIL ANCH, ALL TYPES	331.08
634-1200	10.00	EA	80.40	RIGHT OF WAY MARKERS	804.0
641-1100	84.00	LF	41.57	GUARDRAIL, TP T	3491.88
641-1200	475.00	LF	9.10	GUARDRAIL, TP W	4322.5
641-5001	2.00	EA	401.71	GUARDRAIL ANCHORAGE, TP 1	803.42
641-5012	2.00	EA	1263.48	GUARDRAIL ANCHORAGE, TP 12	2526.96
668-1100	6.00	EA	1635.80	CATCH BASIN, GP 1	9814.8
668-1110	20.00	LF	166.35	CATCH BASIN, GP 1, ADDL DEPTH	3327.0
668-5000	3.00	EA	1211.93	JUNCTION BOX	3635.79
				Section Sub Total:	**$1,081,546.36**

Section Temporary Erosion Control

Item Number	Quantity	Units	Unit Price	Item Description	Cost
163-0232	1.00	AC	435.70	TEMPORARY GRASSING	435.7
163-0240	11.00	TN	213.84	MULCH	2352.24
163-0300	2.00	EA	1074.69	CONSTRUCTION EXIT	2149.38
163-0520	500.00	LF	10.50	CONSTRUCT AND REMOVE TEMPORARY PIPE SLOPE DRAIN	5250.0
163-0530	300.00	LF	1.83	CONSTRUCT AND REMOVE BALED STRAW EROSION CHECK	549.0
165-0010	300.00	LF	1.06	MAINTENANCE OF TEMPORARY SILT FENCE, TP A	318.0
165-0030	600.00	LF	1.29	MAINTENANCE OF TEMPORARY SILT FENCE, TP C	774.0
165-0070	150.00	LF	1.17	MAINTENANCE OF BALED STRAW	175.5

				EROSION CHECK	
165-0101	2.00	EA	336.19	MAINTENANCE OF CONSTRUCTION EXIT	672.38
167-1000	2.00	EA	3742.84	WATER QUALITY MONITORING AND SAMPLING	7485.68
167-1500	12.00	MO	594.20	WATER QUALITY INSPECTIONS	7130.40
171-0010	300.00	LF	1.76	TEMPORARY SILT FENCE, TYPE A	528.0
171-0030	600.00	LF	3.06	TEMPORARY SILT FENCE, TYPE C	1836.0
700-7000	1.00	TN	51.52	AGRICULTURAL LIME	51.52
700-7010	1.00	GL	18.43	LIQUID LIME	18.43
700-8000	1.00	TN	236.56	FERTILIZER MIXED GRADE	236.56
				Section Sub Total:	**$29,962.79**

Section Erosion Control

Item Number	Quantity	Units	Unit Price	Item Description	Cost
163-0240	8.00	TN	213.84	MULCH	1710.72
700-6910	1.00	AC	749.98	PERMANENT GRASSING	749.98
700-7000	1.00	TN	51.52	AGRICULTURAL LIME	51.52
700-7010	2.00	GL	18.43	LIQUID LIME	36.86
700-8000	1.00	TN	236.56	FERTILIZER MIXED GRADE	236.56
				Section Sub Total:	**$2,785.64**

Section SIGNING AND MARKING

Item Number	Quantity	Units	Unit Price	Item Description	Cost
636-1020	36.00	SF	14.82	HIGHWAY SIGNS, TP 1 MATL, REFL SHEETING, TP 3	533.52
636-1031	36.00	SF	17.19	HIGHWAY SIGNS, TP 1 MATL, REFL SHEETING TP 6	618.84
636-2080	64.00	LF	8.15	GALV STEEL POSTS, TP 8	521.6
636-3010	2.00	EA	213.26	GROUND-MOUNTED BREAKAWAY SIGN SUPPORT	426.52
653-1501	2400.00	LF	0.24	THERMOPLASTIC SOLID TRAF STRIPE, 5 IN, WHITE	576.0
653-1502	2400.00	LF	0.23	THERMOPLASTIC SOLID TRAF STRIPE, 5 IN, YELLOW	552.0
653-1704	22.00	LF	3.65	THERMOPLASTIC SOLID TRAF STRIPE, 24 IN, WHITE	80.3
653-3501	2400.00	GLF	0.16	THERMOPLASTIC SKIP TRAF STRIPE, 5 IN, WHITE	384.0
654-1001	30.00	EA	3.39	RAISED PVMT MARKERS TP 1	101.7
654-1003	30.00	EA	3.54	RAISED PVMT MARKERS TP 3	106.2
657-3054	456.00	GLF	1.97	PREFORMED PLASTIC SKIP PVMT MKG, 5 IN, WHITE, TP PB	898.31
657-6054	456.00	LF	3.97	PREFORMED PLASTIC SOLID PVMT MKG, 5 IN, YELLOW, TP PB	1810.32
				Section Sub Total:	**$6,609.32**

Section OFF-SITE DETOUR

Item Number	Quantity	Units	Unit Price	Item Description	Cost
402-3130	1100.00	TN	36.04	RECYCLED ASPH CONC 12.5 MM SUPERPAVE, GP 2 ONLY, INCL BITUM	39644.0
413-1000	200.00	GL	0.91	BITUM TACK COAT	182.0
432-5010	8000.00	SY	1.61	MILL ASPH CONC PVMT, VARIABLE DEPTH	12880.0
				Section Sub Total:	**$52,706.00**

Total Estimated Cost: $1,173,610.11

Subtotal Construction Cost	**$1,173,610.11**
E&C Rate 10.0 %	$117,361.01
Inflation Rate 5.0 % @ 5.0 Years	$356,671.52
Total Construction Cost	**$1,647,642.64**
Right Of Way	$542,500.00
ReImb. Utilities	$28,300.00
Grand Total Project Cost	**$2,218,442.64**

BRST-3104 (4) Baldwin, P.I. # 245405

Bridge Widening Estimate

Section Roadway

Item Number	Quantity	Units	Unit Price	Item Description	Cost
150-1000	1.00	LS	75000.00	TRAFFIC CONTROL -	75000.0
210-0100	1.00	LS	100000.00	GRADING COMPLETE -	100000.0
310-1201	900.00	TN	20.99	GR AGGR SUBBASE CRS, INCL MATL	18891.0
318-3000	500.00	TN	15.84	AGGR SURF CRS	7920.0
400-3101	400.00	TN	43.63	ASPH CONC 12.5 MM SUPERPAVE, GP 2 ONLY, INCL BITUM MATL,	17452.0
402-1812	100.00	TN	35.97	RECYCLED ASPH CONC LEVELING, INCL BITUM MATL & H LIME	3597.0
402-3111	300.00	TN	30.76	RECYCLED ASPH CONC 19 MM MIX, GP 1 OR 2, INCL BITUM MATL &	9228.0
402-3121	600.00	TN	34.63	RECYCLED ASPH CONC 25 MM SUPERPAVE, GP 1 OR 2, INCL BITUM	20778.0
413-1000	350.00	GL	0.88	BITUM TACK COAT	308.0
432-5010	2740.00	SY	1.63	MILL ASPH CONC PVMT, VARIABLE DEPTH	4466.2
433-1100	510.00	SY	107.71	REINF CONC APPROACH SLAB, INCL CURB	54932.1
441-0018	67.00	SY	31.97	DRIVEWAY CONCRETE, 8 IN TK	2141.99
441-4030	203.00	SY	32.58	CONC VALLEY GUTTER, 8 IN	6613.74
441-6222	2400.00	LF	10.01	CONC CURB & GUTTER, 8 IN X 30 IN, TP 2	24024.0
444-1000	120.00	LF	2.42	SAWED JOINTS IN EXIST PAVEMENTS - PCC	290.4
446-3000	100.00	LF	1.95	PVMT REINF FABRIC STRIPS, SELF ADHESIVE	195.0
540-0001	1.00	EACH	263340.00	WIDEN EXISTING BRIDGE - BR NO. 1	263340.0
540-1102	1.00	LS	65000.00	REMOVAL OF EXISTING BR, BR NO - 1	65000.0
550-4118	3.00	EA	282.50	FLARED END SECTION 18 IN, SIDE DRAIN	847.5
603-2024	700.00	SY	39.38	STN DUMPED RIP RAP, TP 1, 24 IN	27566.0
603-7000	700.00	SY	3.14	PLASTIC FILTER FABRIC	2198.0
610-1075	4.00	EA	82.77	REM GUARDRAIL ANCH, ALL TYPES	331.08
634-1200	10.00	EA	80.40	RIGHT OF WAY MARKERS	804.0
641-1100	84.00	LF	41.57	GUARDRAIL, TP T	3491.88
641-1200	475.00	LF	9.10	GUARDRAIL, TP W	4322.5
641-5001	2.00	EA	401.71	GUARDRAIL ANCHORAGE, TP 1	803.42
641-5012	2.00	EA	1263.48	GUARDRAIL ANCHORAGE, TP 12	2526.96
668-1100	6.00	EA	1635.80	CATCH BASIN, GP 1	9814.8
668-1110	20.00	LF	166.35	CATCH BASIN, GP 1, ADDL DEPTH	3327.0
668-5000	3.00	EA	1211.93	JUNCTION BOX	3635.79
				Section Sub Total:	**$733,846.36**

Section Temporary Erosion Control

Item Number	Quantity	Units	Unit Price	Item Description	Cost
163-0232	1.00	AC	435.70	TEMPORARY GRASSING	435.7
163-0240	11.00	TN	213.84	MULCH	2352.24
163-0300	2.00	EA	1074.69	CONSTRUCTION EXIT	2149.38
163-0520	500.00	LF	10.50	CONSTRUCT AND REMOVE TEMPORARY PIPE SLOPE DRAIN	5250.0
163-0530	300.00	LF	1.83	CONSTRUCT AND REMOVE BALED STRAW EROSION CHECK	549.0
165-0010	300.00	LF	1.06	MAINTENANCE OF TEMPORARY SILT FENCE, TP A	318.0
165-0030	600.00	LF	1.29	MAINTENANCE OF TEMPORARY SILT FENCE, TP C	774.0
165-0070	150.00	LF	1.17	MAINTENANCE OF BALED STRAW	175.5

				EROSION CHECK	
165-0101	2.00	EA	336.19	MAINTENANCE OF CONSTRUCTION EXIT	672.38
167-1000	2.00	EA	3742.84	WATER QUALITY MONITORING AND SAMPLING	7485.68
167-1500	12.00	MO	594.20	WATER QUALITY INSPECTIONS	7130.40
171-0010	300.00	LF	1.76	TEMPORARY SILT FENCE, TYPE A	528.0
171-0030	600.00	LF	3.06	TEMPORARY SILT FENCE, TYPE C	1836.0
700-7000	1.00	TN	51.52	AGRICULTURAL LIME	51.52
700-7010	1.00	GL	18.43	LIQUID LIME	18.43
700-8000	1.00	TN	236.56	FERTILIZER MIXED GRADE	236.56
				Section Sub Total:	**$29,962.79**

Section Erosion Control

Item Number	Quantity	Units	Unit Price	Item Description	Cost
163-0240	8.00	TN	213.84	MULCH	1710.72
700-6910	1.00	AC	749.98	PERMANENT GRASSING	749.98
700-7000	1.00	TN	51.52	AGRICULTURAL LIME	51.52
700-7010	2.00	GL	18.43	LIQUID LIME	36.86
700-8000	1.00	TN	236.56	FERTILIZER MIXED GRADE	236.56
				Section Sub Total:	**$2,785.64**

Section SIGNING AND MARKING

Item Number	Quantity	Units	Unit Price	Item Description	Cost
636-1020	36.00	SF	14.82	HIGHWAY SIGNS, TP 1 MATL, REFL SHEETING, TP 3	533.52
636-1031	36.00	SF	17.19	HIGHWAY SIGNS, TP 1 MATL, REFL SHEETING TP 6	618.84
636-2080	64.00	LF	8.15	GALV STEEL POSTS, TP 8	521.6
636-3010	2.00	EA	213.26	GROUND-MOUNTED BREAKAWAY SIGN SUPPORT	426.52
653-1501	2400.00	LF	0.24	THERMOPLASTIC SOLID TRAF STRIPE, 5 IN, WHITE	576.0
653-1502	2400.00	LF	0.23	THERMOPLASTIC SOLID TRAF STRIPE, 5 IN, YELLOW	552.0
653-1704	22.00	LF	3.65	THERMOPLASTIC SOLID TRAF STRIPE, 24 IN, WHITE	80.3
653-3501	2400.00	GLF	0.16	THERMOPLASTIC SKIP TRAF STRIPE, 5 IN, WHITE	384.0
654-1001	30.00	EA	3.39	RAISED PVMT MARKERS TP 1	101.7
654-1003	30.00	EA	3.54	RAISED PVMT MARKERS TP 3	106.2
657-3054	456.00	GLF	1.97	PREFORMED PLASTIC SKIP PVMT MKG, 5 IN, WHITE, TP PB	898.31
657-6054	456.00	LF	3.97	PREFORMED PLASTIC SOLID PVMT MKG, 5 IN, YELLOW, TP PB	1810.32
				Section Sub Total:	**$6,609.32**

Section OFF-SITE DETOUR

Item Number	Quantity	Units	Unit Price	Item Description	Cost
402-3130	1100.00	TN	36.04	RECYCLED ASPH CONC 12.5 MM SUPERPAVE, GP 2 ONLY, INCL BITUM	39644.0
413-1000	200.00	GL	0.91	BITUM TACK COAT	182.0
432-5010	8000.00	SY	1.61	MILL ASPH CONC PVMT, VARIABLE DEPTH	12880.0
				Section Sub Total:	**$52,706.00**

Total Estimated Cost: $825,910.11

Subtotal Construction Cost	**$825,910.11**
E&C Rate 10.0 %	$82,591.01
Inflation Rate 5.0 % @ 5.0 Years	$251,002.11
Total Construction Cost	**$1,159,503.23**
Right Of Way	$542,500.00
ReImb. Utilities	$28,300.00
Grand Total Project Cost	**$1,730,303.23**

BRST 3104 (4) Baldwin County, P.I. # 245405

Bridge Replacement

Section Roadway

Item Number	Quantity	Units	Unit Price	Item Description	Cost
150-1000	1.00	LS	75000.00	TRAFFIC CONTROL -	75000.0
210-0100	1.00	LS	100000.00	GRADING COMPLETE -	100000.0
310-1201	900.00	TN	20.99	GR AGGR SUBBASE CRS, INCL MATL	18891.0
318-3000	500.00	TN	15.84	AGGR SURF CRS	7920.0
400-3101	400.00	TN	43.63	ASPH CONC 12.5 MM SUPERPAVE, GP 2 ONLY, INCL BITUM MATL,	17452.0
402-1812	100.00	TN	35.97	RECYCLED ASPH CONC LEVELING, INCL BITUM MATL & H LIME	3597.0
402-3111	300.00	TN	30.76	RECYCLED ASPH CONC 19 MM MIX, GP 1 OR 2, INCL BITUM MATL &	9228.0
402-3121	600.00	TN	34.63	RECYCLED ASPH CONC 25 MM SUPERPAVE, GP 1 OR 2, INCL BITUM	20778.0
413-1000	350.00	GL	0.88	BITUM TACK COAT	308.0
432-5010	2740.00	SY	1.63	MILL ASPH CONC PVMT, VARIABLE DEPTH	4466.2
433-1100	510.00	SY	107.71	REINF CONC APPROACH SLAB, INCL CURB	54932.1
441-0018	67.00	SY	31.97	DRIVEWAY CONCRETE, 8 IN TK	2141.99
441-4030	203.00	SY	32.58	CONC VALLEY GUTTER, 8 IN	6613.74
441-6222	2400.00	LF	10.01	CONC CURB & GUTTER, 8 IN X 30 IN, TP 2	24024.0
444-1000	120.00	LF	2.42	SAWED JOINTS IN EXIST PAVEMENTS - PCC	290.4
446-3000	100.00	LF	1.95	PVMT REINF FABRIC STRIPS, SELF ADHESIVE	195.0
540-0001	1.00	EACH	904020.00	CONSTR OF BRIDGE COMPLETE	904020.0
540-1102	1.00	LS	65000.00	REMOVAL OF EXISTING BR, BR NO - 1	65000.0
550-4118	3.00	EA	282.50	FLARED END SECTION 18 IN, SIDE DRAIN	847.5
603-2024	700.00	SY	39.38	STN DUMPED RIP RAP, TP 1, 24 IN	27566.0
603-7000	700.00	SY	3.14	PLASTIC FILTER FABRIC	2198.0
610-1075	4.00	EA	82.77	REM GUARDRAIL ANCH, ALL TYPES	331.08
634-1200	10.00	EA	80.40	RIGHT OF WAY MARKERS	804.0
641-1100	84.00	LF	41.57	GUARDRAIL, TP T	3491.88
641-1200	475.00	LF	9.10	GUARDRAIL, TP W	4322.5
641-5001	2.00	EA	401.71	GUARDRAIL ANCHORAGE, TP 1	803.42
641-5012	2.00	EA	1263.48	GUARDRAIL ANCHORAGE, TP 12	2526.96
668-1100	6.00	EA	1635.80	CATCH BASIN, GP 1	9814.8
668-1110	20.00	LF	166.35	CATCH BASIN, GP 1, ADDL DEPTH	3327.0
668-5000	3.00	EA	1211.93	JUNCTION BOX	3635.79
				Section Sub Total:	**$1,374,526.36**

Section Temporary Erosion Control

Item Number	Quantity	Units	Unit Price	Item Description	Cost
163-0232	1.00	AC	435.70	TEMPORARY GRASSING	435.7
163-0240	11.00	TN	213.84	MULCH	2352.24
163-0300	2.00	EA	1074.69	CONSTRUCTION EXIT	2149.38
163-0520	500.00	LF	10.50	CONSTRUCT AND REMOVE TEMPORARY PIPE SLOPE DRAIN	5250.0
163-0530	300.00	LF	1.83	CONSTRUCT AND REMOVE BALED STRAW EROSION CHECK	549.0
165-0010	300.00	LF	1.06	MAINTENANCE OF TEMPORARY SILT FENCE, TP A	318.0
165-0030	600.00	LF	1.29	MAINTENANCE OF TEMPORARY SILT FENCE, TP C	774.0
165-0070	150.00	LF	1.17	MAINTENANCE OF BALED STRAW	175.5

				EROSION CHECK	
165-0101	2.00	EA	336.19	MAINTENANCE OF CONSTRUCTION EXIT	672.38
167-1000	2.00	EA	3742.84	WATER QUALITY MONITORING AND SAMPLING	7485.68
167-1500	12.00	MO	594.20	WATER QUALITY INSPECTIONS	7130.40
171-0010	300.00	LF	1.76	TEMPORARY SILT FENCE, TYPE A	528.0
171-0030	600.00	LF	3.06	TEMPORARY SILT FENCE, TYPE C	1836.0
700-7000	1.00	TN	51.52	AGRICULTURAL LIME	51.52
700-7010	1.00	GL	18.43	LIQUID LIME	18.43
700-8000	1.00	TN	236.56	FERTILIZER MIXED GRADE	236.56
				Section Sub Total:	**$29,962.79**

Section Erosion Control

Item Number	Quantity	Units	Unit Price	Item Description	Cost
163-0240	8.00	TN	213.84	MULCH	1710.72
700-6910	1.00	AC	749.98	PERMANENT GRASSING	749.98
700-7000	1.00	TN	51.52	AGRICULTURAL LIME	51.52
700-7010	2.00	GL	18.43	LIQUID LIME	36.86
700-8000	1.00	TN	236.56	FERTILIZER MIXED GRADE	236.56
				Section Sub Total:	**$2,785.64**

Section SIGNING AND MARKING

Item Number	Quantity	Units	Unit Price	Item Description	Cost
636-1020	36.00	SF	14.82	HIGHWAY SIGNS, TP 1 MATL, REFL SHEETING, TP 3	533.52
636-1031	36.00	SF	17.19	HIGHWAY SIGNS, TP 1 MATL, REFL SHEETING TP 6	618.84
636-2080	64.00	LF	8.15	GALV STEEL POSTS, TP 8	521.6
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653-1501	2400.00	LF	0.24	THERMOPLASTIC SOLID TRAF STRIPE, 5 IN, WHITE	576.0
653-1502	2400.00	LF	0.23	THERMOPLASTIC SOLID TRAF STRIPE, 5 IN, YELLOW	552.0
653-1704	22.00	LF	3.65	THERMOPLASTIC SOLID TRAF STRIPE, 24 IN, WHITE	80.3
653-3501	2400.00	GLF	0.16	THERMOPLASTIC SKIP TRAF STRIPE, 5 IN, WHITE	384.0
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657-3054	456.00	GLF	1.97	PREFORMED PLASTIC SKIP PVMT MKG, 5 IN, WHITE, TP PB	898.31
657-6054	456.00	LF	3.97	PREFORMED PLASTIC SOLID PVMT MKG, 5 IN, YELLOW, TP PB	1810.32
				Section Sub Total:	**$6,609.32**

Section OFF-SITE DETOUR

Item Number	Quantity	Units	Unit Price	Item Description	Cost
402-3130	1100.00	TN	36.04	RECYCLED ASPH CONC 12.5 MM SUPERPAVE, GP 2 ONLY, INCL BITUM	39644.0
413-1000	200.00	GL	0.91	BITUM TACK COAT	182.0
432-5010	8000.00	SY	1.61	MILL ASPH CONC PVMT, VARIABLE DEPTH	12880.0
				Section Sub Total:	**$52,706.00**

Total Estimated Cost: $1,466,590.11

Subtotal Construction Cost	**$1,466,590.11**
E&C Rate 10.0 %	$146,659.01
Inflation Rate 5.0 % @ 5.0 Years	$445,710.99
Total Construction Cost	**$2,058,960.11**
Right Of Way	$542,500.00
ReImb. Utilities	$28,300.00
Grand Total Project Cost	**$2,629,760.11**

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
PROJECT CONCEPT REPORT

District Two Design Office

Project Number: *BRST-3104 (4)*
County: *Baldwin*
P. I. Number: *245405*

Federal Route Number: *ST3104*
State Route Number: *29*
County Road Number: *None*

Recommendation for approval:

DATE _____ _____
Project Manager

DATE _____ _____
District Engineer

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

DATE _____ _____
State Transportation Planning Administrator

DATE _____ _____
State Transportation Programming Engineer

DATE _____ _____
State Environmental/Location Engineer

DATE _____ _____
State Traffic Safety and Design Engineer

DATE _____ _____
Project Review Engineer

DATE 7/16/04 Paul V. Liles Jr
State Bridge & Structural Design Engineer

Proposed Design Features:

- Proposed typical section(s): *4 - 11' Asphaltic Concrete travel lanes with curb and gutter and 5' sidewalks both sides, 6' sidewalks will be provided across the proposed bridge.*
- Proposed Design Speed Mainline: *40 mph*
- Proposed Maximum grade Mainline: *3%*
- Maximum grade allowable Mainline: *8%*
- Proposed Maximum grade Side Street: *No side streets are involved with this project*
- Maximum grade allowable on Side Streets: *No side streets are involved with this project*
- Proposed Maximum grade driveway: *15%*
- Proposed Maximum degree of curve: *3 Degree 0 Min*
- Maximum degree allowable: *12 Deg 15 min*
- Right of way
  - Width: *100*
  - Easements: Temporary ☐, Permanent ☐, Utility ☐, Other ☐.
  - Type of access control: Full ☐, Partial ☐, By Permit ☒, Other ☐.
  - Number of parcels: *4* Number of displacements: *0*
    - Business: *0*
    - Residences: *0*
    - Mobile homes: *0*
    - Other: *0*
- Structures:
  - Bridges: *Proposed 228' x 60' Reinforced Concrete Bridge* 60' pc 7/16/04
  - Retaining walls: *None*
- Major intersections and interchanges: *None*
- Traffic control during construction: *An off-site detour will be utilized during the construction of this project. The route will follow West Andrews Street, South Wilkinson Street and the existing S.R. 243 / U.S. 441 as shown on the attached Location Sketch. The proposed detour length is 0.57 miles (3000 Lin Ft) which will be milled and resurfaced after use.*
- Design Exceptions to controlling criteria anticipated:

	UNDETERMINED	YES	NO
HORIZONTAL ALIGNMENT:	☐	☐	☒
ROADWAY WIDTH:	☐	☐	☒
SHOULDER WIDTH:	☐	☐	☒
VERTICAL GRADES:	☐	☐	☒
CROSS SLOPES:	☐	☐	☒
STOPPING SIGHT DISTANCE:	☐	☐	☒
SUPERELEVATION RATES:	☐	☐	☒
HORIZONTAL CLEARANCE:	☐	☐	☒
SPEED DESIGN:	☐	☐	☒
VERTICAL CLEARANCE:	☐	☐	☒
BRIDGE WIDTH:	☐	☐	☒
BRIDGE STRUCTURAL CAPACITY:	☐	☐	☒

- Design Variances: *None*
- Environmental concerns: *There is a potential hazardous waste site located just north of the project limits. If the project limit is extended, this could become a concern. Also, the existing bridge was built in 1949 and could be historic.*

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
PROJECT CONCEPT REPORT

District Two Design Office

Project Number: *BRST-3104 (4)*
County: *Baldwin*
P. I. Number: *245405*

Federal Route Number: *ST3104*
State Route Number: *29*
County Road Number: *None*

Recommendation for approval:

DATE _____ _____
Project Manager

DATE _____ _____
District Engineer

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DATE _____ _____
State Transportation Planning Administrator

DATE _____ _____
State Transportation Programming Engineer

DATE _____ _____
State Environmental/Location Engineer

DATE _____ _____
State Traffic Safety and Design Engineer

DATE 7-8-04 David J Mullins for
Project Review Engineer

DATE _____ _____
State Bridge & Structural Design Engineer