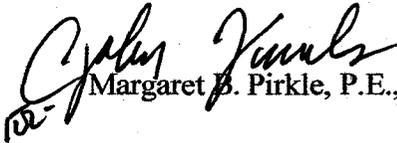


**DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA**

**INTERDEPARTMENT CORRESPONDENCE**

**FILE** P. I. No. 0004729, Muscogee County **OFFICE** Preconstruction  
BR-0004-00(729)  
Bridge Replacements on Brown Avenue **DATE** August 4, 2006  
over Southern RR and Bragg Smith Street

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

**TO** SEE DISTRIBUTION

**SUBJECT APPROVED PROJECT CONCEPT REPORT**

Attached for your files is the approval for subject project.

Attachment

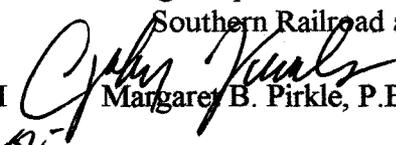
**DISTRIBUTION:**

Brian Summers  
Harvey Keepler  
Ken Thompson  
Michael Henry  
Keith Golden  
Joe Palladi  
Paul Liles  
Thomas Howell  
BOARD MEMBER

**DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA**

**INTERDEPARTMENT CORRESPONDENCE**

**FILE:** P. I. No. 0004729, Muscogee County **OFFICE** Preconstruction  
 BR-0004-00(729)  
 Bridge Replacements on Brown Avenue over Norfolk  
 Southern Railroad and Bragg Smith Street **DATE** July 25, 2006

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

**TO**  David E. Studstill, Jr., P.E., Chief Engineer

**SUBJECT** PROJECT CONCEPT REPORT

This project is the replacement of two structurally deficient bridges on Brown Avenue/CS 222703 over Norfolk Southern Railroad and Bragg Smith Street in the city of Columbus. The bridge over Norfolk Southern Railroad was originally constructed in 1940, and reconstructed in 1948 with a sufficiency rating of 21. The existing bridge over Bragg Smith Street, constructed in 1940, has a sufficiency rating of 46. Brown Avenue (CS222703) is functionally classified as an urban minor arterial, and is a designated school bus route. These bridges provide connectivity between Willet and Wynnton neighborhoods in Columbus. The existing (2003) annual average daily traffic (AADT) along this segment is 11,300 vehicles per day (VPD). The projected (2029) AADT for this segment is 18,000 VPD.

The construction proposes to construct new 282' x 46' and 150' x 46' concrete bridges over Norfolk Southern Railroad and Bragg Smith Street at the existing bridge sites. The approaches will consist of two, 12' lanes, curb and gutter, sidewalks, and guardrail on both sides of the roadway for the full project length. A 9' x 8' box culvert will be extended on both sides to accommodate the required shoulder width for the roadway. Traffic will be maintained during construction utilizing an off-site detour.

Environmental concerns include requiring a COE 404 Permit; a Categorical Exclusion will be prepared; a public information open house or a public hearing open house will be held; time saving procedures are not appropriate.

The estimated costs for this project are:

	<u>PROPOSED</u>	<u>APPROVED</u>	<u>FUNDING</u>	<u>PROG DATE</u>
Construction (includes E&C and inflation)	\$3,424,000	\$2,286,000	LICO	2009
Right-of-Way & Utilities*	Local	Local	Local	

David Studstill

Page 2

P. I. No. 0004729, Muscogee

July 25, 2006

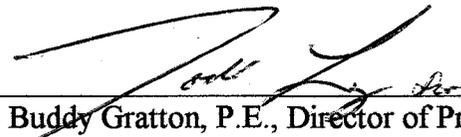
\*Muscogee county signed LGPA on 9-9-02 for right-of-way, utilities, and detours.

I recommend this project concept be approved.

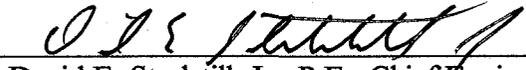
MBP:JDQ/cj

Attachment

CONCUR

  
Buddy Gratton, P.E., Director of Preconstruction

APPROVE

  
David E. Studstill, Jr., P.E., Chief Engineer

**DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA**

-----  
**INTERDEPARTMENTAL CORRESPONDENCE**

**FILE:** BR-0004-00(729) Muscogee                      **OFFICE:** Engineering Services  
P.I. No. 0004729  
Bridge Replacement on Brown Ave. over N/S RR & Bragg Smith St.

**DATE:** August 8, 2006

**FROM:** <sup>BKS</sup> Brian K. Summers, P.E., Project Review Engineer

**TO:** Meg Pirkle, P.E., Assistant Director of Preconstruction

**SUBJECT: CONCEPT REPORT**

We have reviewed the Concept Report received July 17, 2006 from Jeff Swiderski, and have no comments.

The costs for this project are:

Construction	\$2,846,678
Inflation	\$291,784
E & C	\$284,667
Reimbursable Utilities	\$225,000 (Columbus/Muscogee County)
Right of Way	\$3,766,710 (Columbus/Muscogee County)

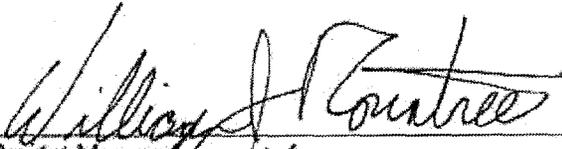
BKS

c: Thomas Howell, Attn.: Jeff Swiderski

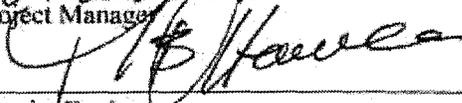
Project Concept Report page 2  
Project Number : BR-0004-00(729)  
P.I. Number: 0004729  
County: Muscogee

**Recommendation for approval:**

DATE 7/12/06

  
Project Manager

DATE 7-12-06

  
District Engineer

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 \_\_\_\_\_

State Transportation Planning Administrator

DATE \_\_\_\_\_

State Financial Management Administrator

DATE \_\_\_\_\_

State Environmental / Location Engineer

DATE 8/8/06

  
Project Review Engineer

DATE \_\_\_\_\_

State Traffic Safety and Design Engineer

DATE \_\_\_\_\_

State Bridge & Structural Engineer (Bridge or Wall Projects)

## SCORING RESULTS AS PER MOG 2440-2

<b>Project Number:</b> BR-0004-00(729)		<b>County:</b> Muscogee		<b>PI No.:</b> 0004729	
<b>Report Date:</b> July 17, 2006		<b>Concept By:</b> DOT Office: District 3			
<input checked="" type="checkbox"/> Concept Stage		Consultant:			
<b>Project Type:</b> Choose One From Each Column		<input type="checkbox"/> Major <input checked="" type="checkbox"/> Minor	<input checked="" type="checkbox"/> Urban <input type="checkbox"/> Rural	<input type="checkbox"/> ATMS <input checked="" type="checkbox"/> Bridge Replacement <input type="checkbox"/> Building <input type="checkbox"/> Interchange Reconstruction <input type="checkbox"/> Intersection Improvement <input type="checkbox"/> Interstate <input type="checkbox"/> New Location <input type="checkbox"/> Widening & Reconstruction <input type="checkbox"/> Miscellaneous	
FOCUS AREAS	SCORE	RESULTS			
<b>Presentation</b>	100				
<b>Judgement</b>	100				
<b>Environmental</b>	100				
<b>Right of Way</b>	100				
<b>Utility</b>	100				
<b>Constructability</b>	100				
<b>Schedule</b>	100				

## NOTICE OF LOCATION AND DESIGN APPROVAL

BR-0004-00(729) MUSCOGEE  
P.I. 0004729

Notice is hereby given in compliance with Georgia Code 22-2-109 that the Georgia Department of Transportation has approved the Location and Design of the above project.

The date of location approval is AUGUST 4, 2006

This project consists of replacing a bridge on Brown Ave in SW Columbus over the Southern Railroad lines and replacing an existing roadway culvert with a proposed bridge over Bragg Smith Street. This project is approximately 2500 ft in length and has a typical section of a 2 lane roadway with curb & gutter, sidewalk and guardrail. The project is in a fill section because of the above grade intersection of the Southern Railroad lines and Bragg Smith Street. The fill slopes will be 2:1. This project will also extend a culvert to accommodate the proposed widening of shoulders and fill slopes. The project is 100 % in Muscogee County. This project lies entirely within the city limits of Columbus, Ga.

Drawings, maps or plats of the proposed project, as approved, are on file and are available for inspection at the Georgia Department of Transportation:

Wayne Pittman  
wayne.pittman@dot.state.ga.us  
3600 Schatulga Road, Columbus, GA 31907  
(706) 568-2165

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

William J. Rountree, P.E., District Design Engineer  
Department Of Transportation  
bill.rountree@dot.state.ga.us  
715 Andrews Drive  
Thomaston, Georgia 30286-4524  
(706) 646-6604

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

Project Concept Report page 2  
Project Number : BR-0004-00(729)  
P.I. Number: 0004729  
County: Muscogee

**Recommendation for approval:**

DATE 7/12/06

William J. Coutree  
Project Manager

DATE 7-12-06

J. B. Hawes  
District Engineer

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 \_\_\_\_\_

\_\_\_\_\_  
State Transportation Planning Administrator

DATE 7/17/06

James T. Simpson  
State Financial Management Administrator

DATE \_\_\_\_\_

\_\_\_\_\_  
State Environmental / Location Engineer

DATE \_\_\_\_\_

\_\_\_\_\_  
Project Review Engineer

DATE \_\_\_\_\_

\_\_\_\_\_  
State Traffic Safety and Design Engineer

DATE \_\_\_\_\_

\_\_\_\_\_  
State Bridge & Structural Engineer (Bridge or Wall Projects)

Project Concept Report page 2  
Project Number : BR-0004-00(729)  
P.I. Number: 0004729  
County: Muscogee

**Recommendation for approval:**

DATE 7/12/06

  
Project Manager

DATE 7-12-06

  
District Engineer

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 7/27/06

  
State Transportation Planning Administrator

DATE \_\_\_\_\_

State Financial Management Administrator

DATE \_\_\_\_\_

State Environmental / Location Engineer

DATE \_\_\_\_\_

Project Review Engineer

DATE \_\_\_\_\_

State Traffic Safety and Design Engineer

DATE \_\_\_\_\_

State Bridge & Structural Engineer (Bridge or Wall Projects)

Project Concept Report page 2  
Project Number : BR-0004-00(729)  
P.I. Number: 0004729  
County: Muscogee

**Recommendation for approval:**

DATE 7/12/06

William J. Coutree  
Project Manager

DATE 7-12-06

J. B. Howell  
District Engineer

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 \_\_\_\_\_

\_\_\_\_\_  
State Transportation Planning Administrator

DATE \_\_\_\_\_

\_\_\_\_\_  
State Financial Management Administrator

DATE \_\_\_\_\_

\_\_\_\_\_  
State Environmental / Location Engineer

DATE \_\_\_\_\_

\_\_\_\_\_  
Project Review Engineer

DATE \_\_\_\_\_

\_\_\_\_\_  
State Traffic Safety and Design Engineer

DATE 8/28/06

Paul V. Liles Jr.  
State Bridge & Structural Engineer (Bridge or Wall Projects)

**DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA**

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**INTERDEPARTMENT CORRESPONDENCE**

**FILE:** P.I. No. 0004729

**OFFICE:** Environment/Location

**DATE:** July 31, 2006

**FROM:**   
Harvey D. Keepler, State Environmental/Location Engineer

**TO:** Margaret B. Pirkle, Assistant Director of Preconstruction

**SUBJECT:** **PROJECT CONCEPT REPORT**  
**BR-0004-00(729) / Muscogee County**

The above subject concept report has been reviewed. This Office has no comments at this time.

If you have any questions, please contact me at (404) 699-4401.

HDK/lc

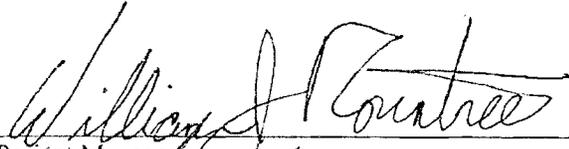
Attachment

cc: Brian Summers  
Thomas Howell  
Keith Golden  
Joseph Palladi  
Jamie Simpson  
Paul Liles

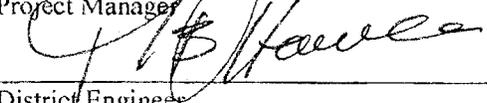
Project Concept Report page 2  
Project Number : BR-0004-00(729)  
P.I. Number: 0004729  
County: Muscogee

**Recommendation for approval:**

DATE 7/12/06

  
Project Manager

DATE 7-12-06

  
District Engineer

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).

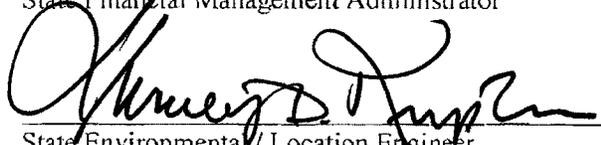
DATE \_\_\_\_\_

\_\_\_\_\_  
State Transportation Planning Administrator

DATE \_\_\_\_\_

\_\_\_\_\_  
State Financial Management Administrator

DATE 7. 31.06

  
State Environmental / Location Engineer

DATE \_\_\_\_\_

\_\_\_\_\_  
Project Review Engineer

DATE \_\_\_\_\_

\_\_\_\_\_  
State Traffic Safety and Design Engineer

DATE \_\_\_\_\_

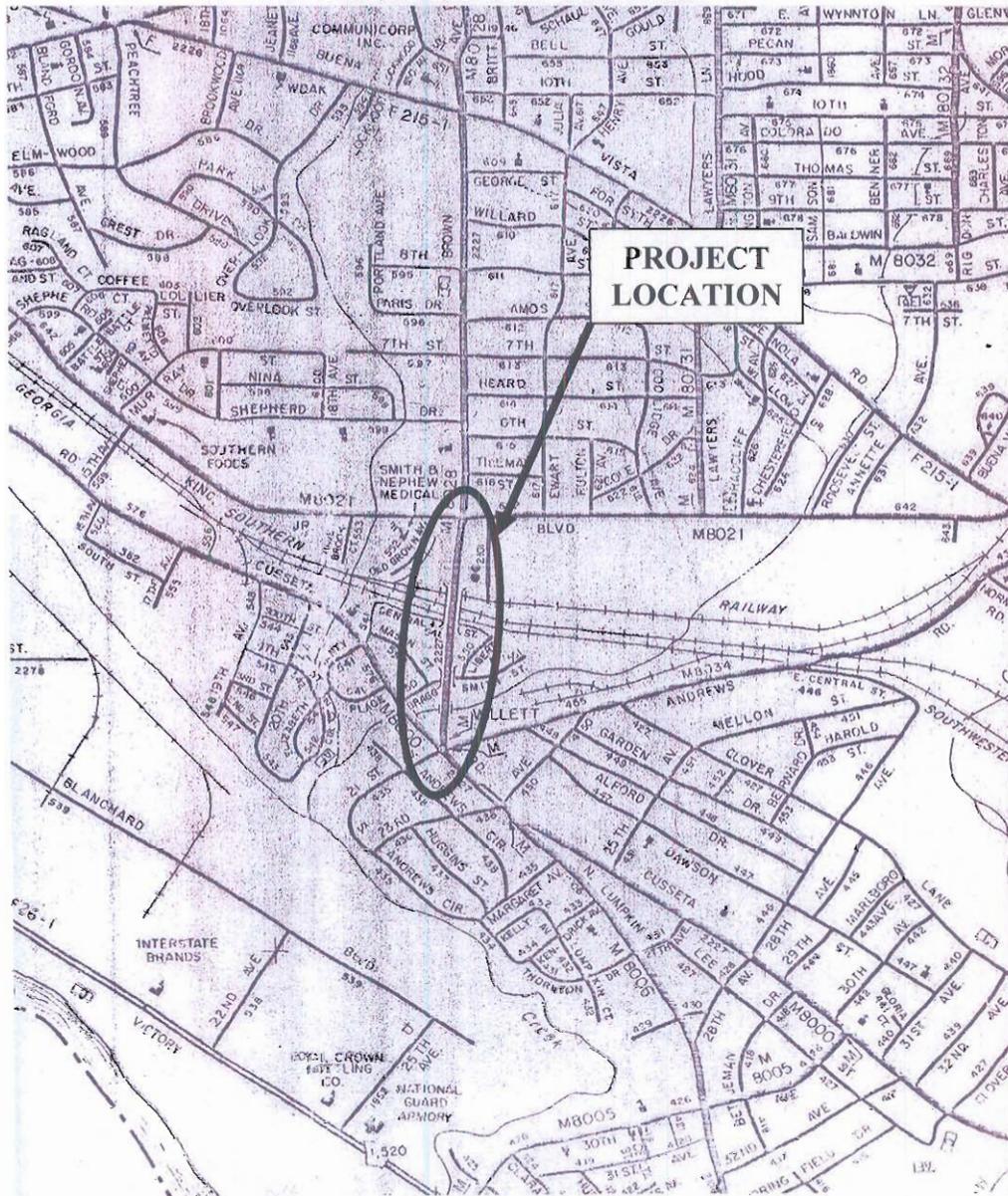
\_\_\_\_\_  
State Bridge & Structural Engineer (Bridge or Wall Projects)

DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA  
OFFICE OF DISTRICT THREE DESIGN

# PROJECT CONCEPT REPORT

**BR-0004-00(729)**  
**Muscogee County**  
**P.I. No.: 0004729**

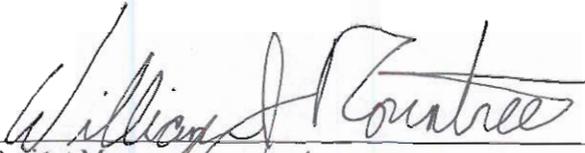
**FEDERAL ROUTE NO: None**  
**STATE ROUTE NO: None**



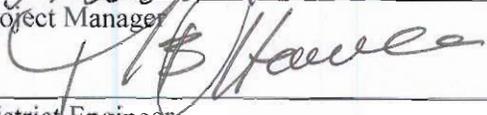
Project Concept Report page 2  
Project Number : BR-0004-00(729)  
P.I. Number: 0004729  
County: Muscogee

**Recommendation for approval:**

DATE 7/12/06

  
\_\_\_\_\_  
Project Manager

DATE 7-12-06

  
\_\_\_\_\_  
District Engineer

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 \_\_\_\_\_

\_\_\_\_\_  
State Transportation Planning Administrator

DATE \_\_\_\_\_

\_\_\_\_\_  
State Financial Management Administrator

DATE \_\_\_\_\_

\_\_\_\_\_  
State Environmental / Location Engineer

DATE \_\_\_\_\_

\_\_\_\_\_  
Project Review Engineer

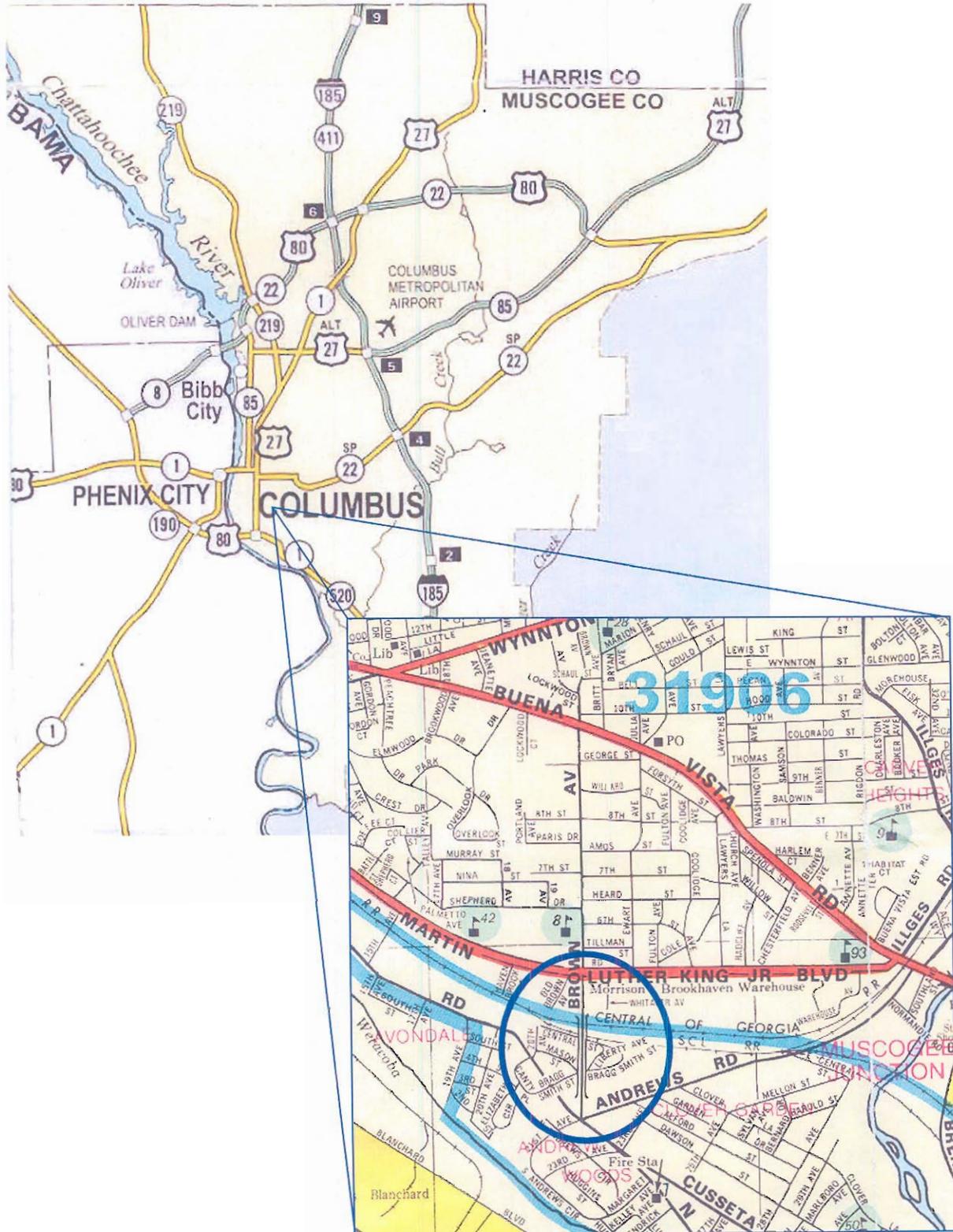
DATE \_\_\_\_\_

\_\_\_\_\_  
State Traffic Safety and Design Engineer

DATE \_\_\_\_\_

\_\_\_\_\_  
State Bridge & Structural Engineer (Bridge or Wall Projects)

PI#: 0004729/Columbus, GA/Muscogee County/Bridge Replacement on Brown Ave. Over Norfolk Southern Railroad and Bragg Smith St.



Project Concept Report page 4  
Project Number : BR-0004-00(729)  
P.I. Number: 0004729  
County: Muscogee

**Need and Purpose:** Project BR-0004-00(729) proposes to replace TWO structurally deficient bridges located on Brown Ave (CS222703) crossing over Norfolk Southern Railroad, Georgia Southwestern Railroad, and Bragg Smith Street in Columbus, Muscogee County. The sufficiency rating of the bridge over the railroad is 26. The sufficiency rating for the bridge over Bragg Smith St is 46. The Office of Bridge Maintenance has determined that any structure with a sufficiency rating less than 50 should be replaced rather than improved. This project would replace the existing bridges with structurally adequate bridges.

Brown Avenue (CS222703) is functionally classified as an urban minor arterial, and is a designated school bus route. Brown Avenue is not part of a local, or state wide, bicycle network. These bridges provide connectivity between Willet and Wynnton neighborhoods of Columbus, so sidewalks are being proposed for pedestrian access. The posted speed limit along the roadway is 30 mph. The bridge over Norfolk Southern Railroad was originally constructed in 1940, and reconstructed in 1948. The existing (2003) Annual Average Daily Traffic (AADT) along this segment is 11,300 vehicles per day (VPD). The projected (2029) AADT for this segment is 18,000 VPD. This includes 3% trucks.

Replacing the bridges would bring them up to current design standards and improve the operation and safety of this roadway.

Project Concept Report page 5  
Project Number : BR-0004-00(729)  
P.I. Number: 0004729  
County: Muscogee

**Description of the proposed project:** The proposed project is to begin at mile log 1.43 (Cusseta Rd), and end at mile log 1.87 (MLK Blvd). The total length of this project is 2323.23 ft. This project is inside the city limits of Columbus, Georgia. This project will utilize an offsite detour. Two bridges will need to be constructed. A 292' x 46' bridge and a 150' x 46' bridge is proposed to replace the existing structurally deficient bridges. Also a 9' x 8' box culvert will need to be extended on both sides in order to construct the required shoulder width for the roadway. There will be curb and gutter, sidewalks, and guardrail on both sides of the roadway for the full project length. The proposed bridges will improve the safety and operation of Brown Ave inside the project limits. The bridges will meet AASHTO geometric design standards including minimum clearance over the railroad and roadway. It will also serve current and future traffic.

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

**PDP Classification:** Major  Minor

**Federal Oversight:** Full Oversight , Exempt , State Funded , or Other

**Functional Classification:** Urban Minor Arterial

**U.S. Route Number(s):** None

**State Route Number(s):** None

**Traffic (AADT):**

Current Year (2005): 11,500

Design Year (2033): 18,000

K = 8%

D = 60%

T = 2%

24 HR T = 3%

**Existing Design Features:**

- Typical Section: 2 – 12 ft lanes, 6 inch curb, 5 ft sidewalk on one side, and guardrail on both sides with 2:1 to 1:1 fill slopes throughout the length of the project on both sides.
- Posted speed 30 mph Maximum degree of curvature: N/A
- Maximum grade: 6.0 %
- Width of right of way: Varies from 60 ft to 100 ft
- Major Structures: Bridge over Bragg Smith Street – Size 31 ft x 48 ft  
Bridge over Norfolk Southern Railroad – Size 276 ft x 50 ft
- Major interchanges or intersections along the project: None
- The existing length of roadway is 2323.23 ft with a beginning mile log of 1.43, and ending mile log of 1.87.

**Proposed Design Features:**

- Proposed typical section(s): 2 – 12 ft lanes with curb and gutter, 10 ft shoulder to include a 2 ft grass strip, 5 ft sidewalk, and guardrail. The fill slope will be 2 ft horizontal to 1 ft vertical.
- Proposed Design Speed Mainline: 30 mph
- Proposed Maximum Grade Mainline: 6.0 %      Maximum Grade Allowable: 9.0 %
- Proposed Maximum Grade Side Street: N/A %      Maximum Grade Allowable: N/A %
- Proposed Maximum Grade Driveway: 15 %
- Proposed Minimum Degree of Curve: N/A      Minimum Degree Allowable: N/A
- Right of Way
  - Width: Varies from 100 ft to 200 ft
  - Easements: Temporary , Permanent , Utility , Other .
  - Type of access control: Full , Partial , By Permit , Other .
  - Number of Parcels: 25      Number of Displacements:
    - Business: 1
    - Residences: 8
    - Mobile homes: 0
    - Other: \_\_\_\_\_
- Structures:
  - Bridge over Bragg Smith St Approx Size = 150' x 46'
  - Bridge over Norfolk Southern Railroad Approx Size = 292' x 46'
  - Culvert: 8' x 10' will be extended approx. 25' on each side
  - Retaining Walls: A Concrete Side Barrier Type 2-C retaining wall can be placed on both sides of the roadway to reduce construction limits therefore reducing the required right of way.
- Major Intersections and Interchanges: N/A
- Traffic Control During Construction: The roadway will be closed during construction.
- Design Exceptions to controlling criteria anticipated:

	<u>UNDETERMINED</u>	<u>YES</u>	<u>NO</u>
HORIZONTAL ALIGNMENT:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
ROADWAY WIDTH:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SHOULDER WIDTH:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
VERTICAL GRADES:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
CROSS SLOPES:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
STOPPING SIGHT DISTANCE:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SUPERELEVATION RATES:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
HORIZONTAL CLEARANCE:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SPEED DESIGN:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
VERTICAL CLEARANCE:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
BRIDGE WIDTH:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
BRIDGE STRUCTURAL CAPACITY:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

- Design Variances: None Anticipated

- Environmental Concerns: All homes within the project limits are potentially historic.
- 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:
  - Bell South
  - Georgia Power
  - Atmos Energy Corp.

**Project Responsibilities:**

- Design – GDOT
- Right of Way Acquisition – Columbus Consolidated Government
- Relocation of Utilities – Columbus Consolidated Government
- Letting to Contract – GDOT
- Supervision of Construction – GDOT
- Providing Material Pits – Contractor
- Providing Detours – Columbus Consolidated Government

**Coordination:**

- Initial Concept Meeting – N/A
- Concept Meeting – Held on June 29, 2006, See attached minutes
- Public Involvement – A PIOH or PHOH will need to be held. A Detour Meeting will also need to be held. There will have to be coordination to address Environmental Justice issues. There will also need to be coordination with the local school system and emergency services.
- Local Government Comments – Columbus Consolidated Government supports this project.
- Other Projects in the Area – None
- Other Coordination to Date: - None
- Railroads:
  - Norfolk Southern Railroad – 4 tracks active, 1 track inactive
  - GDOT - Leased to Georgia Southwestern Railroad – 1 track active

**Scheduling – Responsible Parties’ Estimate**

- Time to complete the environmental process: 12 Months
- Time to complete preliminary construction plans: 8 Months
- Time to complete right of way plans: 3 Months
- Time to complete the Section 404 Permit: 12 Months
- Time to complete the final construction plans: 8 Months
- Time to complete the purchase of the right of way: 18 Months
- List other major items that will affect the project schedule:
  - Railroad Coordination: 12 Months
  - Utility Coordination: 6 Months

Project Concept Report page 8  
Project Number : BR-0004-00(729)  
P.I. Number: 0004729  
County: Muscogee

**Other Alternates Considered:**

1. Alternate 1 – Close road to replace both bridges in place while using an off site detour.
2. Alternate 2 – No Build

**Comments:** These two bridges need to be designed as two lane bridges that we will be able to expand to two four lane bridges in the future when the roadway is widened from two to four lanes without any major reconstruction of the bridges.

**Attachments:**

1. Preliminary Cost Estimate:
  - a. Construction including E&C
  - b. Right of Way
  - c. Utilities
2. Sketch Location Map
3. Typical Section
4. Bridge Inventory
5. Minutes of Concept Team Meeting
6. Location and Design Notice

## PRELIMINARY COST ESTIMATE

PROJECT NUMBER: BR-0004-00(729) COUNTY: MUSCOGEE

PI #: 0004729 DESCRIPTION: BRIDGE REPLACEMENT- BROWN AVE @ SOUTHERN RR

DATE: 7/10/2006 ESTIMATED LETTING DATE: FY 08

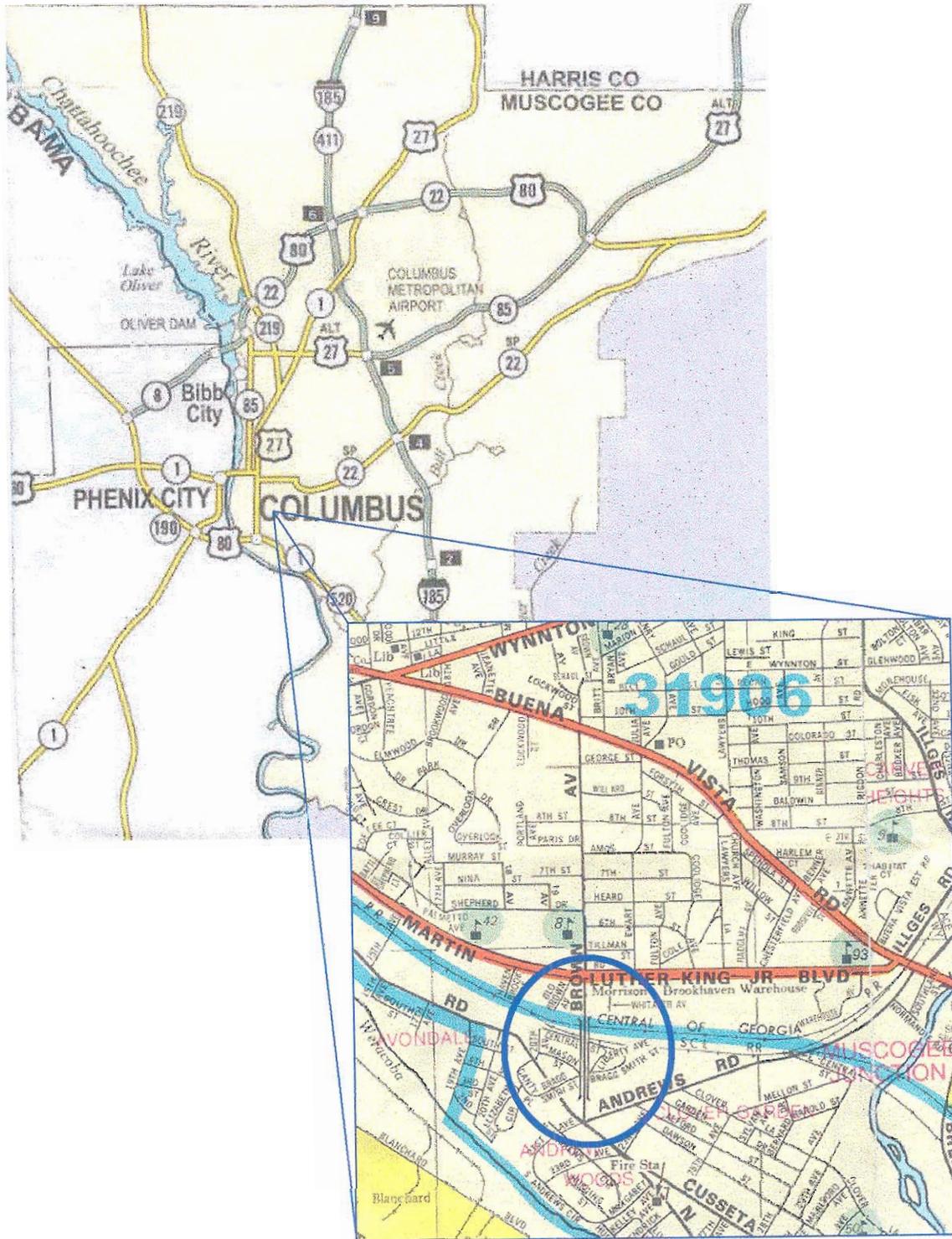
PREPARED BY: JEFF SWIDERSKI PROJECT LENGTH: 0.25 MILES

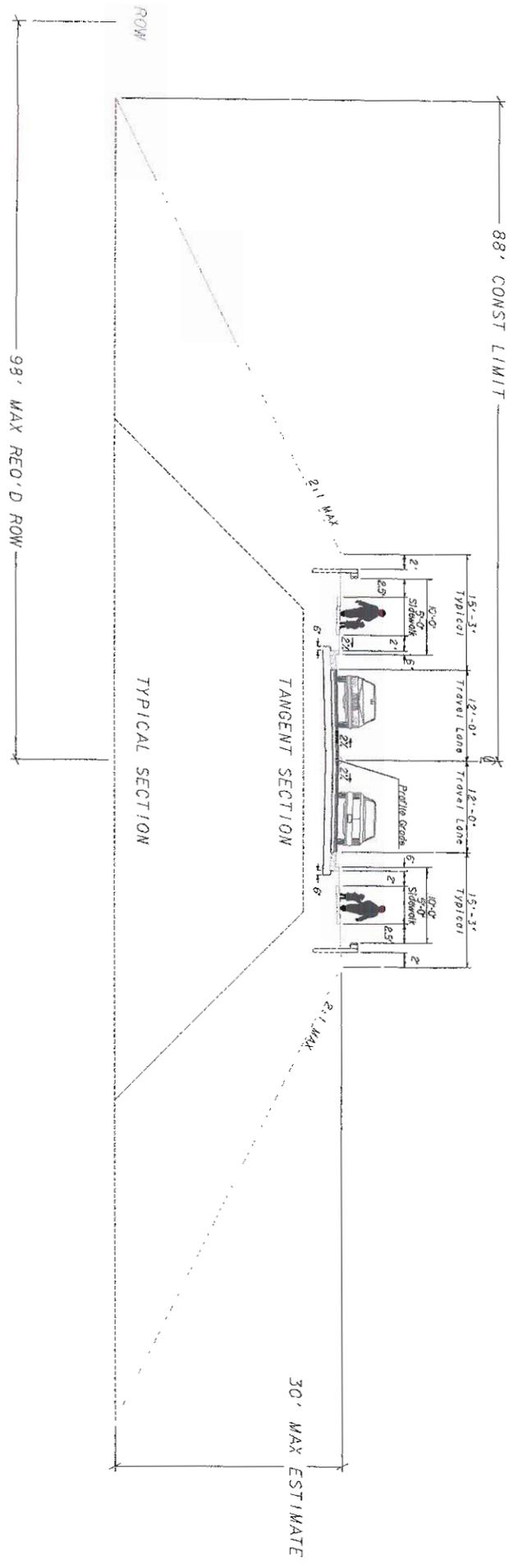
PROGRAMMING PROCESS  CONCEPT DEVELOPMENT  DURING PROJECT DEVELOPMENT

<b>A. RIGHT-OF-WAY:</b>			
1. PROPERTY (LAND & EASEMENT)	0 AC	\$0.00 PER AC	\$864,882.00
2. DISPLACEMENTS	RES: 8 BUS: 1	M.H.: 0	\$220,000.00
3. OTHER COST (ADM./COST, INFLATION)			\$2,681,828.00
SUBTOTAL: A			<b>\$3,766,710.00</b>
<b>B. REIMBURSABLE UTILITIES:</b>			
1. RAILROAD			\$0.00
2. TRANSMISSION LINES			\$0.00
3. SERVICES			\$225,000.00
SUBTOTAL: B			<b>\$225,000.00</b>
<b>C. CONSTRUCTION:</b>			
<b>1. MAJOR STRUCTURES</b>			
a. BRIDGES (SF OF DECK)	20,345 SF	\$80.00 PER SF	\$1,627,600.00
<b>b. CULVERTS</b>			
1) CLASS A CONCRETE	101 CY	\$500.00 PER CY	\$50,500.00
2) BAR REINF STEEL	12,156 LB	\$0.80 PER LB	\$9,724.80
c. RETAINING WALLS(SF OF FACE)	0 SF	\$45.00 PER SF	\$0.00
SUBTOTAL: C-1			<b>\$1,687,824.80</b>
<b>2. GRADING AND DRAINAGE</b>			
a. EARTHWORK	30,000 CY	\$9.00 PER CY	\$270,000.00
<b>b. DRAINAGE</b>			
1) CROSS DRAIN PIPE	0 EA	\$4,800.00 PER EA	\$0.00
2) CROSS DRAIN PIPE RIP RAP	0 EA	\$1,000.00 PER EA PIPE	\$0.00
3) CURB AND GUTTER	3,100 LF	\$15.00 PER LF	\$46,500.00
4) BRIDGE END ROLLW RIP RAP	250 SY	\$28.00 PER SY	\$7,000.00
5) LONGITUDINAL SYSTEM	3,100 LF	\$78.00 PER LF	\$241,800.00
SUBTOTAL: C-2			<b>\$565,300.00</b>
<b>3. BASE AND PAVING</b>			
a. AGGREGATE BASE	1,600 TN	\$30.00 PER TN	\$48,000.00
<b>b. ASPHALT PAVING</b>			
1) SURFACE	240 TN	\$100.00 PER TN	\$24,000.00
2) BINDER	310 TN	\$100.00 PER TN	\$31,000.00
3) BASE	480 TN	\$100.00 PER TN	\$48,000.00
SUBTOTAL: C-3.b			<b>\$103,000.00</b>
c. CONCRETE PAVING	0 SY	\$75.00 PER SY	\$0.00
d. BITUM TACK COAT	230 GAL	\$1.00 PER GAL	\$230.00
SUBTOTAL: C-3			<b>\$151,230.00</b>

<b>4. LUMP ITEMS:</b>			
a. GRASSING	4 AC	\$1,600.00 PER AC	\$6,400.00
b. CLEARING AND GRUBBING	4 AC	\$5,000.00 PER AC	\$20,000.00
c. LANDSCAPING			\$0.00
d. EROSION CONTROL			\$258,788.98
e. TRAFFIC CONTROL			\$30,000.00
f. SIGNAL			\$0.00
g. ATMS			\$0.00
SUBTOTAL: C-4			<b>\$315,188.98</b>
<b>5. MISCELLANEOUS:</b>			
a. LIGHTING			\$15,000.00
b. SIGNING	4 EA	\$560.00 PER EA	\$2,240.00
c. PAVEMENT MARKING	1,550 LF	\$1.12 PER LF	\$1,736.00
d. BRIDGE PAVEMENT MARKING	450 LF	\$19.02 PER LF	\$8,559.00
e. GUARDRAIL	2,300 LF	\$22.00 PER LF	\$50,600.00
f. SIDEWALK	1,400 SY	\$35.00 PER SY	\$49,000.00
SUBTOTAL: C-5			<b>\$127,135.00</b>
<b>6. SPECIAL FEATURES:</b>			
a.	0 UNIT	\$0.00 COST PER UNIT	\$0.00
SUBTOTAL: C-6			<b>\$0.00</b>
<b>ESTIMATE SUMMARY</b>			
A. RIGHT-OF-WAY	PMA BY LOCALS		<b>\$0.00</b>
B. REIMBURSABLE UTILITIES	PMA BY LOCALS		<b>\$0.00</b>
<b>C. CONSTRUCTION</b>			
1. MAJOR STRUCTURES		\$1,687,824.80	
2. GRADING AND DRAINAGE		\$565,300.00	
3. BASE AND PAVING		\$151,230.00	
4. LUMP ITEMS		\$315,188.98	
5. MISCELLANEOUS		\$127,135.00	
6. SPECIAL FEATURES		\$0.00	
SUBTOTAL CONSTRUCTION COST			<b>\$2,846,678.78</b>
E. & C. (10%)			<b>\$284,667.88</b>
INFLATION (5%/YEAR)		NUMBER OF YEARS	2
TOTAL CONSTRUCTION COST			<b>\$3,423,131.23</b>
<b>GRAND TOTAL PROJECT COST</b>			<b>\$3,423,131.23</b>
This project is 100 % in Congressional District 2			

PI#: 0004729/ Columbus, GA/ Muscogee County/ Replace Bridge Over Railroad





# Bridge Inventory Data Listing

## Georgia Department of Transportation.

Muscogee

Structure ID: 215-0043-0

SUFF RATING: 21.06

### Location & Geography

\* Structure ID: 215-0043-0  
 200 Bridge Information: 06  
 \*6A Feature Int. SOUTHERN RAILROAD  
 \*6B Critical Bridge  
 \*7A Route Number Carried CS02227  
 \*7B Facility Carried. BROWN AVENUE  
 \*9 Location: S.W. COLUMBUS  
 2 DOT District: 3  
 207 Year Photo: 2006  
 \*91 Inspection Frequency: 06 Date: 2/2/2006  
 92A Fract Crit Insp Freq: 00 Date: 2/1/1961  
 92B Underwater Insp Freq: 00 Date: 2/1/1961  
 92C Other Spec Insp Freq: 00 Date: 2/1/1961  
 \*4 Place Code: 19000  
 \*5 Inventory Route (O/U): 1  
 Type: 5  
 Designation: 1  
 Number: 08028  
 Direction: 0  
 Latitude: 32 - 27 1 HMM/S Prefix:  
 \*16 Longitude: 084 - 57 7 HMM/S Suffix:  
 MP 0 00  
 98 Border Bridge: 000 % Shared: 00  
 99 ID Number: 000000000000000000  
 \*100 STRAHNET: C  
 12 Base Highway Network: 1  
 13ALRS Inventory Route: 2153222703  
 13BSub Inventory Route: 0  
 101 Parallel Structure: N  
 \*102 Direction of Traffic: 2  
 \*264 Road Inventory Mile Post: 001 62  
 \*208 Inspection Area: 08 Initials: JLA  
 Engineer's Initial: res

### Signs & Attachments

\*104 Highway System: 0  
 \*26 Functional Classification: 16  
 \*204 Federal Route Type: M No 08028  
 105 Federal Lands Highway: 0  
 \*110 Truck Route: 0  
 206 School Bus Route: 1  
 217 Benchmark Elevation: 0000.00  
 218 Datum: 0  
 \*19 Bypass Length: 04  
 \*20 Toll: 3  
 \*21 Maintenance: 02  
 \*22 Owner: 02  
 \*31 Design Load: 0  
 37 Historical Significance: 5  
 205 Congressional District: 02  
 27 Year Constructed: 1940  
 106 Year Reconstructed: 1948  
 33 Bridge Median: 0  
 34 Skew: 11  
 35 Structure Flared: 0  
 38 Navigation Control: N  
 213 Special Steel Design: 0  
 267 Type of Paint: 0  
 \*42 Type of Service on: 5  
 Type of Service under: 2  
 214 Movable Bridge: 0  
 203 Type Bridge: A O O O  
 259 Pile Encasement: 3  
 \*43 Structure Type Mann: 1 04  
 45 No Spans Mann: 008  
 44 Structure Type Appr: 0 00  
 46 No. Spans Appr: 0000  
 226 Bridge Curve Horiz: 0 Vert: 1  
 111 Pier Protection: 0  
 107 Deck Structure Type: 1  
 108 Wearing Surface Type: 6  
 Membrane Type: 0  
 Deck Protection: 8

225 Expansion Joint Type: 02  
 242 Deck Drains: 0  
 243 Parapet Location: 0 00  
 Height: 0 00  
 Width: 0 00  
 238 Curb Height: 0 6  
 Curb Material: 1  
 239 Handrail: 1 1  
 \*240 Median Barrier Rail: 0  
 241 Bridge Median Height: 0 0  
 \* Bridge Median Width: 0 0  
 230 Guardrail Loc. Dir. Rear: 3  
 Fwrd: 3  
 Oppo Dir. Rear: 0  
 Oppo Fwrd: 0  
 244 Approach Slab: 3  
 224 Retaining Wall: 1  
 233 Posted Speed Limit: 30  
 236 Warning Sign: 0  
 234 Delinctor: 0  
 235 Hazard Boards: 0  
 237 Utilities - Gas: 00  
 Water: 21  
 Electric: 00  
 Telephone: 00  
 Sewer: 00  
 247 Lighting - Street: 0  
 Navigation: 0  
 Aerial: 0  
 \*248 County Continuity No.: 00

\* Location I D No : 215-08028M-000.20N



# Bridge Inventory Data Listing

## Georgia Department of Transportation.

Structure ID: 215-0042-0

Muscogee

SUFF RATING: 46.00

**Location & Geography**

* Structure ID	215-0042-0	* 104 Highway System	0	00	00
* 200 Bridge Information:	06	* 26 Functional Classification	16	0	0
* 6A Feature Int.	CS 550 BRAGG SMITH ST	* 204 Federal Route Type	MNo. 08028	0	0.00
* 6B Critical Bridge	0	105 Federal Lands Highway	0	0.00	0.00
* 7A Route Number Carried	CS02227	* 110 Truck Route	0	0.00	0.00
* 7B Facility Carried	BROWN AVE	206 School Bus Route	1	0.00	0.00
* 9 Location	MID COLUMBUS C.L.	217 Benchmark Elevation:	0000.00	0	0.00
2 DOT District	3	218 Datum	0	0.00	0.00
207 Year Photo	2904	* 19 Bypass Length	06	0	0.00
* 91 Inspection Frequency	24 Date: 8/24/2004	* 20 Toll	3	0.00	0.00
92A Fract Crit Insp Freq	06 Date: 2/1/1901	* 21 Maintenance	02	0.00	0.00
92B Underwater Insp Freq	00 Date: 2/1/1901	* 22 Owner	02	6	6
92C Other Spc. Insp Freq	00 Date: 2/1/1901	* 31 Design Load	2	6	6
* 4 Place Code	19000	37 Historical Significance:	5	0	0
* 5 Inventory Route (O/U)	1	205 Congressional District:	02	0	0
Type	5	27 Year Constructed:	1940	0	0
Designation:	1	106 Year Reconstructed	0000	1	30
Number:	08028	33 Bridge Median:	0	0	0
Direction:	0	34 Skew:	27	0	0
* 16 Latitude:	32 - 27.0 HMMS Prefix:	35 Structure Flared	0	0	0
* 17 Longitude:	84 - 57.7 HMMS Suffix: MP 0.00	38 Navigation Control	N	0	0
98 Border Bridge:	000 % Sinarcd: 00	215 Special Steel Design	0	0	0
99 ID Number:	000000000000000000	267 Type of Paint	0	00	00
* 100 STRAHNET:	0	* 42 Type of Service on	5	00	00
12 Base Highway Network:	1	Type of Service under:	1	00	00
13A LRS Inventory Route	2453222703	214 Movable Bridge:	0	00	00
13B Sub Inventory Route:	0	203 Type Bridge:	Z O O O	0	0
101 Parallel Structure:	N	259 Pile Encasement:	3	0	0
* 102 Direction of Traffic:	2	* 43 Structure Type Main:	1 01	0	0
* 264 Road Inventory Mile Post:	091 53	45 No Spans Main:	001	0	0
* 208 Inspection Area:	08 Initials: JLA	44 Structure Type Appr	1 01	0	0
Engineer's Initial	SGM	46 No. Spans Appr	0002	0	0
		226 Bridge Curve Horiz.	0 Vert 0	0	0
		111 Pier Protection	0	0	0
		107 Deck Structure Type	1	0	0
		108 Wearing Surface Type	6	0	0
* Location I.D. No.:	215-08028M-000.05N	Membrane Type:	0	0	0
		Deck Protection:	0	0	0

**Signs & Attachments**

225 Expansion Joint Type:	00
242 Deck Drains:	0
243 Parapet Location:	0.00
Height:	0.00
Width:	0.00
238 Curb Height:	0
Curb Material:	0.00
239 Handrail:	0
* 240 Median Barrier Rail:	0
241 Bridge Median Height:	0.00
* Bridge Median Width:	0.00
230 Guardrail Loc Dir Rear:	6
Fwrd:	6
Oppo. Dir. Rear:	0
Oppo Fwrd:	0
244 Approach Slab:	0
224 Retaining Wall:	1
233 Posted Speed Limit:	30
236 Warning Sign:	0
234 Delineator:	0
235 Hazard Boards:	0
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

**Programming Data**

201 Project No.: UNKNOWN  
 202 Plans Available: 0  
 249 Prop. Proj No: 00000000000000000000000000000000  
 250 Approval Status: 0 0 0 0  
 251 P.F. No.: 00000000  
 252 Contract Date: 2/1/1901  
 260 Seismic No: 000000  
 75 Type Work: 31 1  
 94 Bridge Imp. Cost: \$97  
 95 Roadway Imp. Cost: \$52  
 96 Total Imp Cost: \$171  
 76 Imp Length: 000249  
 97 Imp Year: 1990  
 114 Future ADT: 016515 Year 2023

**Hydraulic Data**

215 Waterway Data  
 Highway Elev: 0000.0 Year: 1900  
 Flood Elevation: 0000 0 Freq: 00  
 Avg. Streambed Elev: 0000.0  
 Drainage Area: 00000  
 Area of Opening: 000000  
 113 Scour Critical: N  
 216 Water Depth: 00.0 Br. Height: 00.0  
 222 Slope Protection: 0  
 221 Spur Dikes Rear: 0 Fwrd: 0  
 219 Fender System: 0  
 220 Dolphin: 0  
 223 Culvert Cover: 000  
 Type: 0  
 No Barrels: 0  
 \* Width: 0.00 Height: 0.00  
 \* Length: 0 Apron: 0  
 265 U/W Insp Area: 0 Diver: ZZZ

Location I.D. No.: 215-08028M-000.05N

**Measurements**

\* 29 ADT: 011010 Year: 2003  
 109 % Trucks: 7  
 \* 28 Lanes On: 02 Under: 02  
 210 No. Tracks On: 00 Under: 00  
 \* 48 Max. Span Length: 0020  
 \* 49 Structure Length: 31  
 51 B: Rwdy Width: 24.00  
 52 Deck Width: 48.00  
 \* 47 Tot. Horiz. Cl: 24.00  
 50 Curb / Sidewalk Width: 0.00 / 4.00  
 32 Approach Rdwy. Width: 027  
 \* 229 Shoulder Width: 261 H Inventory Rating  
 Rear Lt.: 1 0 Type: 1 Rt. 2 0  
 Fwrd Lt.: 1 0 Type: 1 Rt. 2 0  
 Pavement Width: 262 H Operating Rating  
 Rear: 58 Deck Condition  
 Intersection Rear: 59 Superstructure Condition  
 36 Safety Features Br. Rail: \* 227 Collision Damage  
 Transition: 60A Substructure Condition:  
 App. G. Rail: 60B Scour Condition:  
 App Rail End: 60C Underwater Condition:  
 53 Minimum Cl Over: 71 Waterway Adequacy  
 Under: 61 Channel Protection Cond  
 \* 228 Minimum Vertical Cl: 68 Deck Geometry:  
 Act. Odm Dir.: 99' 99" H 11' 07"  
 Oppo Dir.: 99' 99"  
 Posted Odm. Dir: 00' 00"  
 Oppo Dir: 00' 00"  
 55 Lateral Undercl. Rt: H 0 0  
 56 Lateral Undercl. Lt: 0.0  
 \* 10 Max Min Vert Cl: 99' 99" Dir: 0  
 39 Nav Vert Cl: 000 Horiz: 0000  
 116 Nav Vert Cl Closed: 000  
 245 Deck Thickness Main: 12.00  
 Deck Thick Approach: 12.00  
 246 Overlay Thickness: 18.00  
 212 Year Last Painted: Sup. 0000 Sub: 0000

**Ratings**

65 Inventory Rating Method: 5  
 63 Operating Rating Method: 5  
 66 Inventory Type: 2 Rating: 26  
 64 Operating Type: 2 Rating: 42  
 231 Calculated Loads  
 H-Modified: 21 0  
 HS-Modified: 30 0  
 Type 3: 20 0  
 Type 3s2: 33 0  
 Timber: 26 0  
 Piggyback: 00 0  
 261 H Inventory Rating: 14  
 262 H Operating Rating: 23  
 67 Structural Evaluation: 5  
 58 Deck Condition: 5  
 59 Superstructure Condition: 5  
 \* 227 Collision Damage: 0  
 60A Substructure Condition: 5  
 60B Scour Condition: N  
 60C Underwater Condition: N  
 71 Waterway Adequacy: N  
 61 Channel Protection Cond: N  
 68 Deck Geometry: 2  
 69 UnderClr. Horz/Vert: 2  
 72 Appr Alignment: 6  
 62 Culvert: N  
**Posting Data**  
 70 Bridge Posting Required: 5  
 41 Struct Open, Posted, CL: A  
 \* 103 Temporary Structure: 0  
 232 Posted Loads  
 H-Modified: 00  
 HS-Modified: 00  
 Type 3: 00  
 Type 3s2: 00  
 Timber: 00  
 Piggyback: 00  
 253 Notification Date: 2/1/1901  
 258 Fed Notify Date: 2/1/1901

**CONCEPT TEAM MEETING MINUTES**  
**BR-0004-00(729) Muscogee County**  
**P.I. No. 0004729**

Bridge Replacement of Brown Avenue over Southern Railroad in SW Columbus

**LOCATION:** Thomaston District Three assembly room

**DATE/TIME:** Thursday June 29, 2006

The meeting was called to order by Bill Rountree and he asked attendees introduce themselves. He handed the floor over to Jeff Swiderski.

**LIST OF PARTICIPANTS:**

Audrey D. Gooch	GDOT Local Government R/W
Ray Crutchfield	Crutchfield Acquisition
Mike Garrett	Atmos Energy Corporation
Mark Williams	GDOT AAE/C
Wayne Pittman	GDOT Area 7 Engineer
Felton Grant	City of Columbus
Debra Fowler	GDOT District 3 Environmentalist
Kim Brown	GDOT District 3 Utilities
Lamar Pruitt, Jr.	GDOT District 3 Construction
Bill Rountree	GDOT District 3 Design
Cheryl Griffin	GDOT Preconstruction Secretary
Jeff Swiderski	GDOT District 3 Design

Jeff Swiderski went over the two alternates for the bridge replacement. This project proposes to replace the structurally deficient bridges located on Brown Avenue crossing over Southern Railroad and Bragg Smith Street. The sufficiency rating of this bridge is 26 a rating less than 50 should be replaced rather than improved. The bridge over Southern Railroad was constructed in 1950.

**Alternates:**

- 1) **Build Or No Build**
- 2) **Traffic Control** – An off site detour will be used to maintain traffic control.

**Comments:**

**A. Planning** – no attendees

**B. Office of Financial Management** – no attendees

**C. Environmental** – It is located in an historic district and we will probably need a CE. Environmental put in a request for CE in April we have not received an answer so, leave it at 12 months for right now.

**D. Utilities** – Power lines Bell South and Georgia Power. The time it takes utilities will depend on how long it takes Georgia Power.

**E. Right of Way** – Make sure all improvements to properties are shown on right of way plans. The RW cost appears low.

**F. Traffic Operations** – No Attendees

**G. Construction** – How much do you plan to pay for the eight houses? This is the time to increase the lanes project should include intersection improvements. The intersection needs four lanes right now each intersection backs up over the bridge; the traffic count is over 10,000.

**H. Maintenance** - No Comment

**I. Location** – No Attendees

**J. Others** –

**Mike Garrett – ATMOS Energy Corporation** - Will there be any intersection work? Bragg Smith Street has a gas line that runs under the bridge that needs to be coordinated with the contractor. All cast iron pipes are to be replaced in the area with in eight years, can utilities please keep us informed of the progress.

**Felton Grant – City of Columbus** - He stated that the RW cost seems a little low. RW cost will be paid for with local money. Mr. Grant will bring up the question of 4-lane and intersection improvement now to the locals.

**Ray Crutchfield- Crutchfield Acquisition** - No Comment

**Bill Rountree – District Design Engineer** - This is a bridge replacement project, if an intersection improvement and 4-lane project is needed, the locals will need another project programmed.. You could replace bridges with four lane width now and do future 4-lane and intersection improvements under another project. Preliminary plans on this project will take about 8 months, another 3 months for environmental, and 18 months for right of way.

**Conclusion:** Proceed with the build alternate.