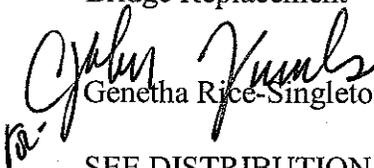


**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

FILE P. I. No. 0007173, Dooly County **OFFICE** Preconstruction
CSBRG-0007-00(173)
SR 230 over Turkey Creek North of Bryomville
Bridge Replacement **DATE** May 27, 2008

FROM  Genetha Rice-Singleton, 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
Glenn Bowman
Ken Thompson
Michael Henry
Keith Golden
Ben Buchan
Paul Liles
Thomas Howell
David Millen
BOARD MEMBER

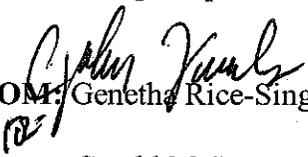
**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENTAL CORRESPONDENCE

FILE: P.I. No. 0007173, Dooly County
CSBRG-0007-00(173)
S.R. 230 over Turkey Creek Northeast of Bryomville-
Bridge Replacement

OFFICE: Preconstruction

DATE: May 14, 2008


FROM: Genetha Rice-Singleton, Assistant Director of Preconstruction

TO: Gerald M. Ross, P.E., Chief Engineer

SUBJECT: PROJECT CONCEPT REPORT

This project is the replacement of a structurally deficient bridge on S.R. 230 over Turkey Creek, 5.5 miles northeast of Bryomville, Georgia. The existing bridge, constructed in 1965, is a 90'x 26' concrete structure with a sufficiency rating of 61. The original design load capacity is H-15. In accordance with DOT MOG 2405-1, the existing bridge meets the established criteria for replacement. S.R. 230 at this location is a rural two lane roadway with 10.5' lanes and 4' shoulders (2' Paved). The posted speed is 55 MPH. S.R. 230 is classified as a major collector. The base year traffic (2013) along this section of S.R. 230 is 500 VPD. The design year (2033) volumes are projected to be 650 VPD. The proposed speed design is 55 MPH.

The project proposes to construct a new 100'x 38' concrete bridge over Turkey Creek at the existing bridge site. The approaches will consist of two, 12' lanes with 10' rural shoulders (2' paved). The existing bridge will be closed to traffic during construction. Traffic control will consist of shifting traffic onto a temporary detour bridge during construction.

Environmental concerns include requiring a COE 404 permit; Categorical Exclusion will be prepared; a Public hearing is not required; Time saving procedures is 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

P.I. No. 0007172, Dooly County
Page 2
May 14, 2008

The estimated costs for this project are:

	<u>PROPOSED</u>	<u>APPROVED</u>	<u>FUNDING</u>	<u>PROG DATE</u>
Construction (includes E&C)	BR \$ 291,000	BR \$ 450,000	L1C0	LR
	STP \$ 918,000	STP ---	L200	LR
Right-of-way	\$ 97,000	\$ 136,000	L1C0	2011
Utilities	\$ 20,000			

* Notification letter sent to Dooly County 6-16-06

I recommend this project concept be approved.

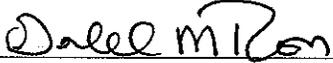
GRS: JDQ
Attachment

CONCUR



Todd I. Long, P.E., Director of Preconstruction

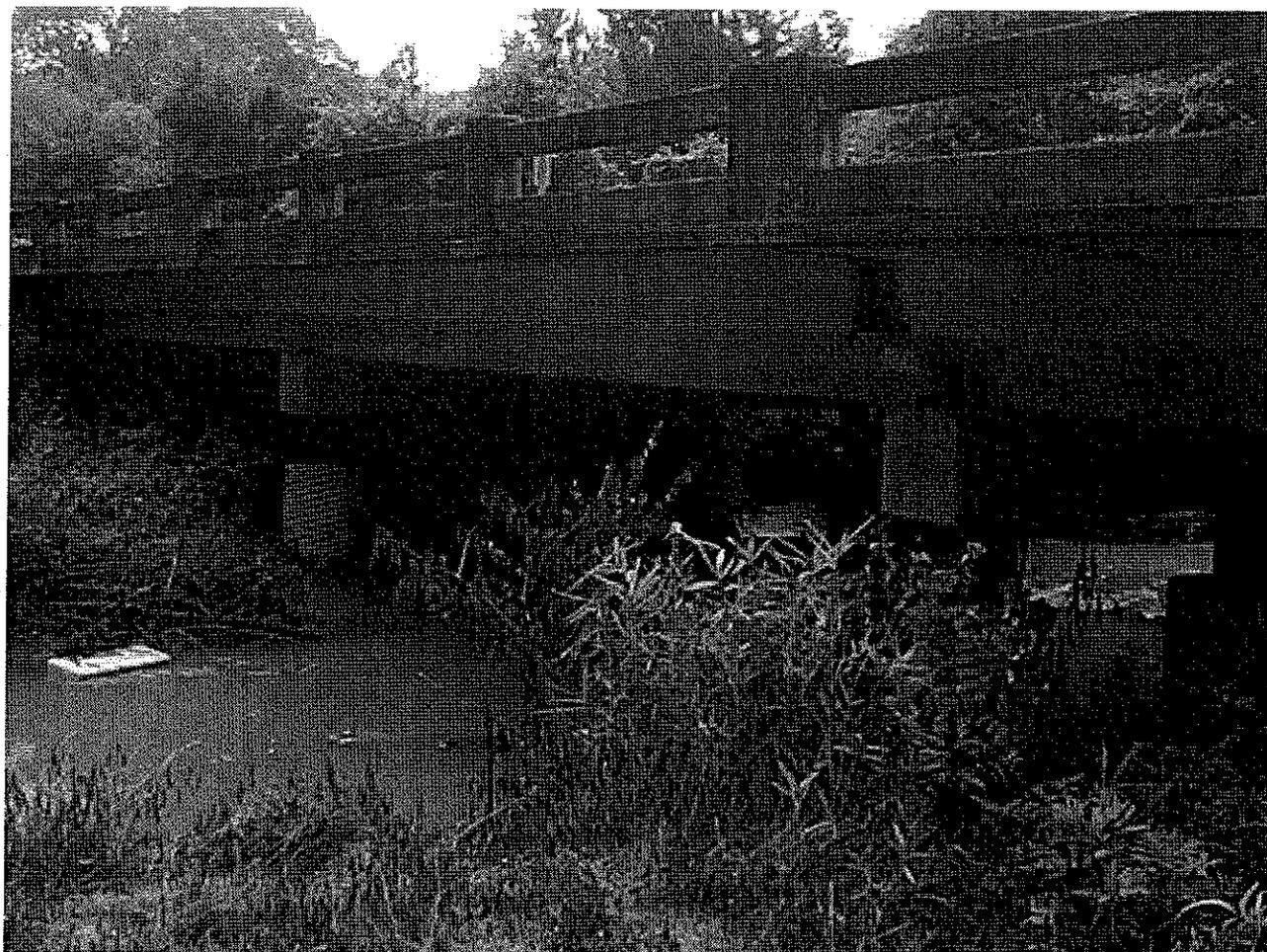
APPROVED



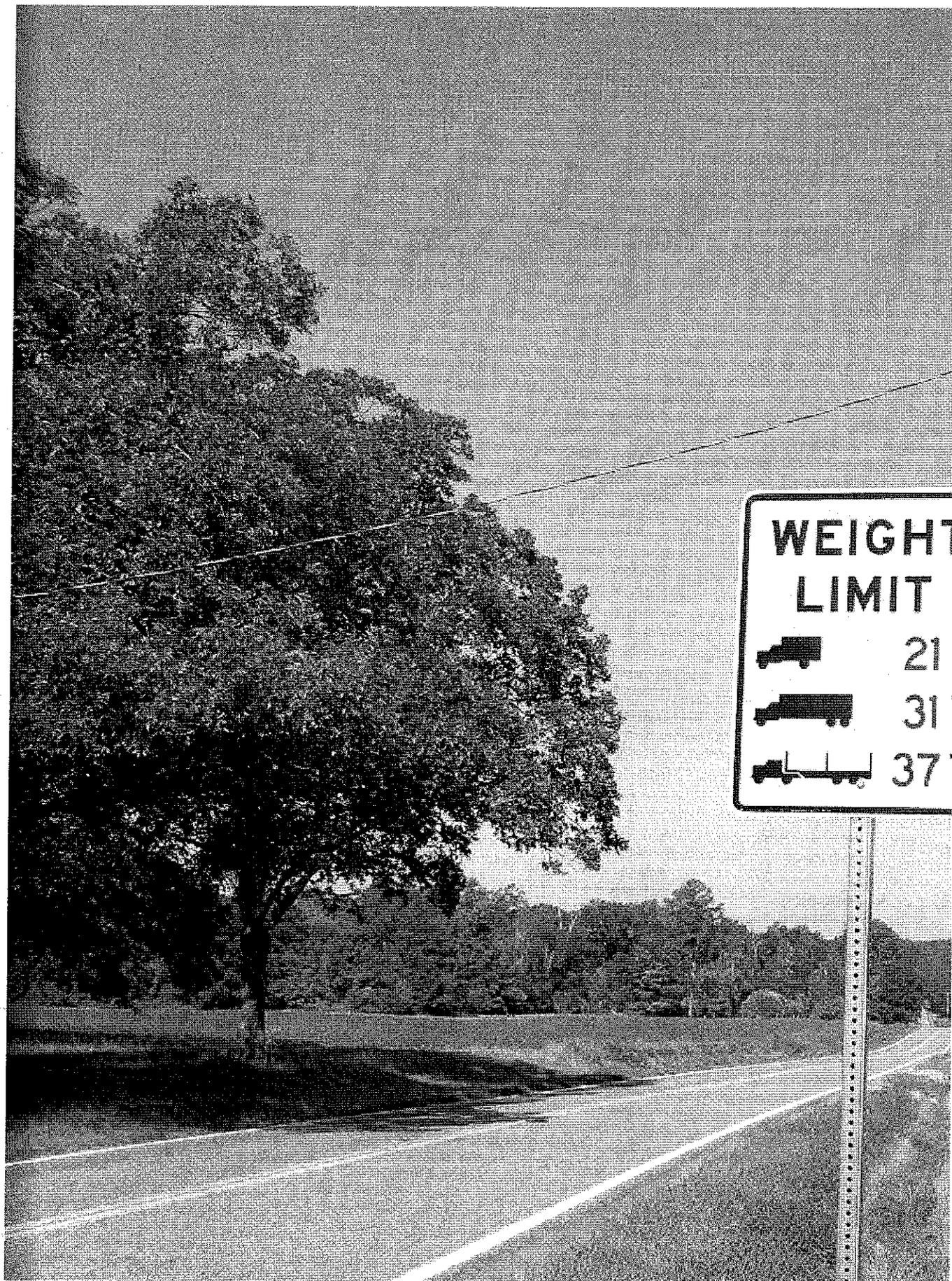
Gerald M. Ross, P.E., Chief Engineer



Looking EAST



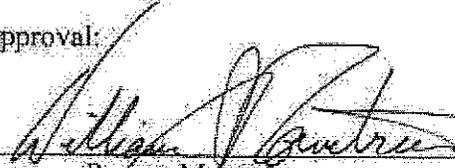
UPSTAIR



Robtind6

Project Concept Report Page 2
Project Number: CSBRG-0007-00(173)
P.I. Number: 0007173
County: Dooly

Recommendation for approval:

DATE 2/14/08 
Project Manager

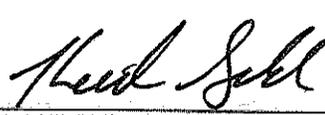
DATE 02/14/08 
District Engineer

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 Financial Management Administrator

DATE _____
State Environmental/Location Engineer

DATE 2-28-08 
State Traffic Safety & Design Engineer

DATE _____
State Structural and Bridge Design Engineer

DATE _____
Project Review Engineer

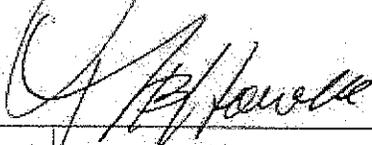
Project Concept Report Page 2
Project Number: CSBRG-0007-00(173)
P.I. Number: 0007173
County: Dooly

Recommendation for approval:

DATE 2/14/08


Project Manager

DATE 02/14/08


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 3-3-08


State Transportation Planning Administrator

DATE _____

State Transportation Financial Management Administrator

DATE _____

State Environmental/Location Engineer

DATE _____

State Traffic Safety & Design Engineer

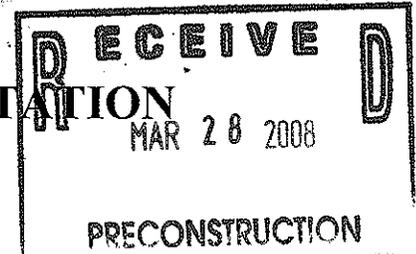
DATE _____

State Structural and Bridge Design Engineer

DATE _____

Project Review Engineer

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA



INTERDEPARTMENT CORRESPONDENCE

FILE: P.I. No. 0007173 OFFICE: Environment/Location

DATE: March 26, 2008

FROM: *GB*
Glenn Bowman, P.E., State Environmental/Location Engineer

TO: Genetha Rice-Singleton, Assistant Director of Preconstruction

SUBJECT: PROJECT CONCEPT REPORT
CSBRG-0007-00(173) / Dooly County
SR 230 Bridge Replacement at Turkey Creek North of Byromville

The above subject Concept Report has been reviewed and appears satisfactory subject to the following comments:

1. The project would impact waters of the US and it is anticipated that this would require mitigation. Therefore adequate funding is needed for mitigation. An aquatic survey for listed species is also required.
2. The off-site detour will require holding a public meeting and expressing comments prior to submitting the CE for approval.
3. This project is currently on hold for environmental studies awaiting prioritization.

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

GB:lc

Attachment

cc: Brian Summers
Jamie Simpson
Angela Alexander
Keith Golden
Thomas Howell
Paul Liles

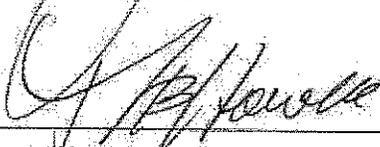
Project Concept Report Page 2
Project Number: CSBRG-0007-00(173)
P.I. Number: 0007173
County: Dooly

Recommendation for approval:

DATE 2/14/08


Project Manager

DATE 02/14/08


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 Financial Management Administrator

DATE 3/26/08


State Environmental/Location Engineer

DATE _____

State Traffic Safety & Design Engineer

DATE _____

State Structural and Bridge Design Engineer

DATE _____

Project Review Engineer

NOTICE OF LOCATION AND DESIGN APPROVAL

CSBRG-0007-00(173) Dooly County
P.I.No. 0007173

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 May 27, 2008

Bridge replacement on County Route 230 located in Dooly County, Georgia in Militia District 1466, Land District 2 and Land Lots 85, 86. All numerical units shall be in English units.

This project proposes to replace a structurally deficient bridge on SR 230 over Turkey Creek 5.5 miles northeast of Byromville.

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

Brink Stokes, Area Engineer
bstokes@dot.ga.gov
200 Julianne Dr.
Perry, GA 31069
478-988-7151

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
brountree@dot.ga.gov
115 Transportation Blvd.
Thomaston, Georgia 30286-7000
(706) 646-6990

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.

DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA

Office of District 3 Design

PROJECT CONCEPT REPORT

Project Number: CSBRG-0007-00(173)

County: Dooly

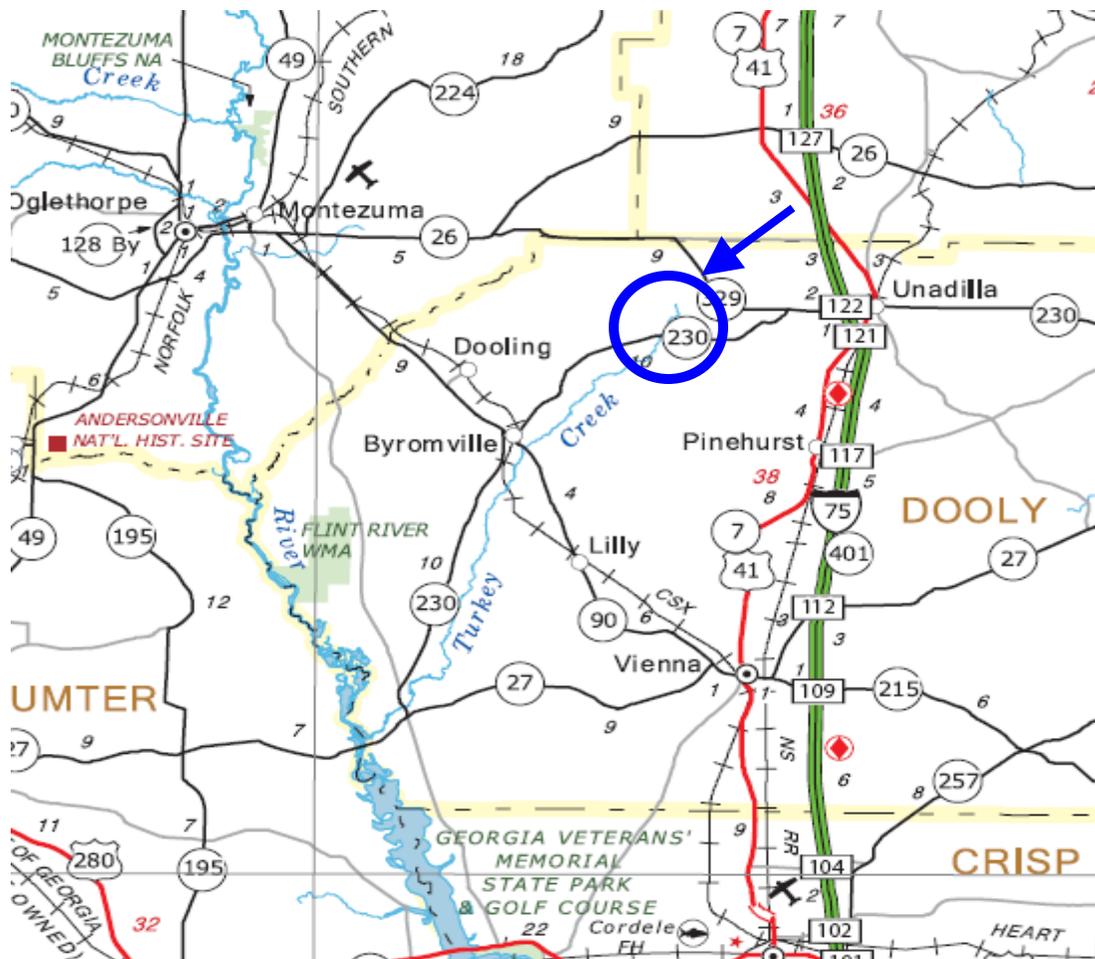
P. I. Number: 0007173



Federal Route Number: None

State Route Number: SR 230

Regional Sketch: SR 230 Bridge Replacement at Turkey Creek North of Byromville

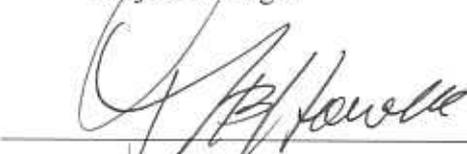


Recommendation for approval:

DATE 2/14/08


Project Manager

DATE 02/14/08


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 Financial Management Administrator

DATE _____

State Environmental/Location Engineer

DATE _____

State Traffic Safety & Design Engineer

DATE _____

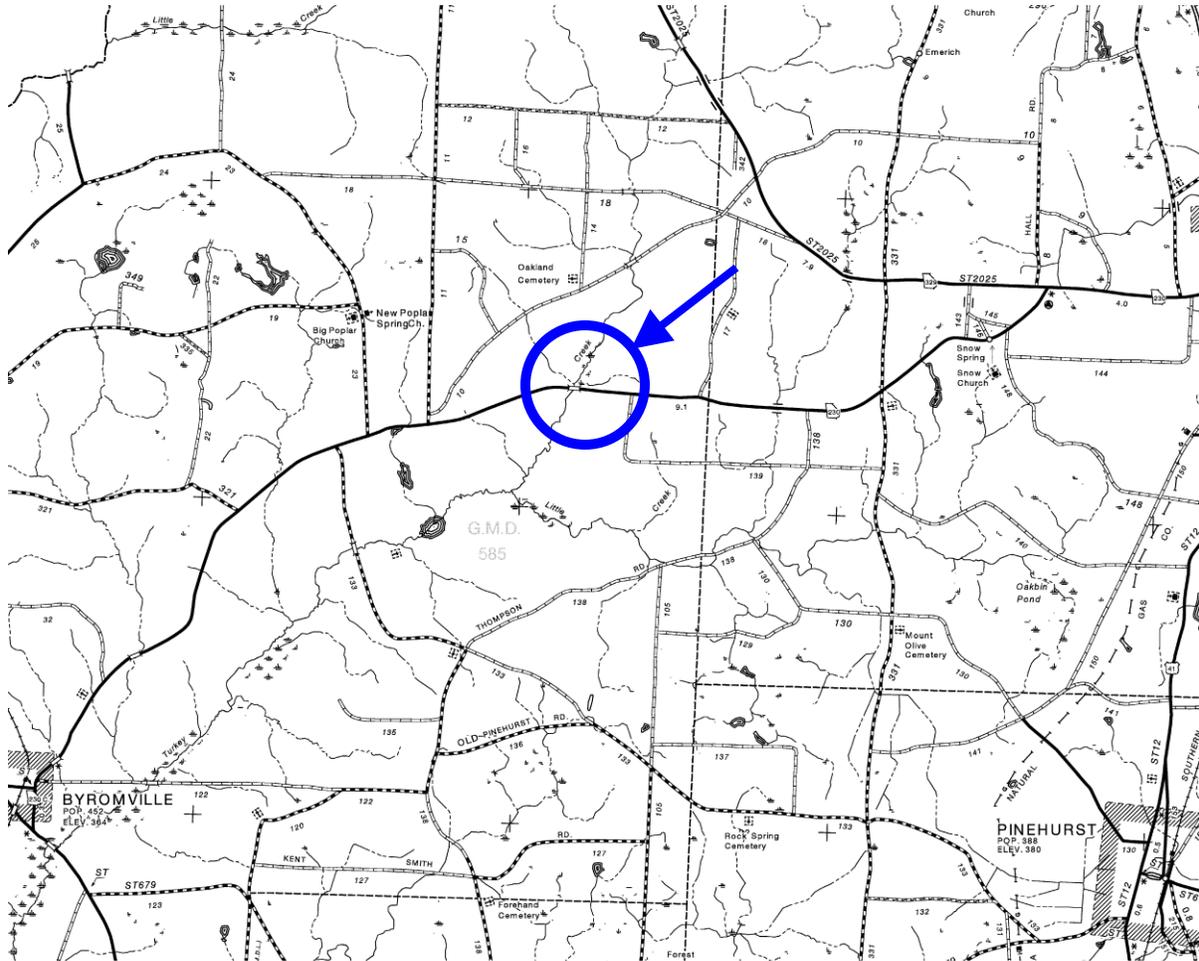
State Structural and Bridge Design Engineer

DATE _____

Project Review Engineer



Project Location Map: SR 230 Bridge Replacement at Turkey Creek North of Byromville



Project Description

Project Number CSBRG-0007-00(173) will replace and widen the structurally deficient bridge located on SR 230 over Turkey Creek. The bridge is located in western Dooly County. The bridge provides the primary connection between the communities of Byromville and Unadilla. This corridor also provides residents of Western Dooly County direct access to Interstate 75. The bridge over Turkey Creek connects SR 90 to SR 329 near Unadilla (please see location map on page two). The project extends for approximately 0.4 mile at road inventory milepost 15.20 (see attached map).

Bridge Characteristics

The bridge was constructed in 1965. This project will replace the existing two-lane bridge with a structurally adequate two-lane bridge. The current bridge sufficiency rating is 61.81 and has a load rating of H-15 (below standards). The bridge is being considered for replacement as per DOT policy 2405-1. The Office of Bridge Maintenance has determined that any bridge with a bridge sufficiency rating under 50 should be replaced. The Office of Bridge Maintenance has also determined that any bridge with a bridge sufficiency rating over 50 should be replaced if the bridge meets their criteria. An insufficient load rating is one of the criteria.

Route Characteristics

SR 230 is functionally classified as a rural major collector. SR 230 has two-way traffic and is a two-lane facility. It is part of a local school bus route. It is not a Truck Route, is not part of STRAHNET, and is not part of the Statewide Bicycle Plan. It is currently not a locally designated bikeway or bike route. The posted speed limit is 55 mph. Sidewalks are not planned for the route.

Traffic Counts

The Average Annual Daily Traffic (AADT) along this section of roadway was 450 AADT in 2006; and projected to be 500 AADT in 2013 and 650 AADT in 2033. Truck traffic is estimated at 6% of all traffic. Level-of-Service (LOS) is "A" for 2006 AADT. Level-of-Service (LOS) is "A" for 2033 AADT.

Social Economic Characteristics

Of the 11,525 residents of Dooly County, the ethnic groups consist of 46.0% White and 49.5% African American, 4.7% Hispanic, and 0.4% Asian. The median household income along this project corridor was \$27,980 (1999 dollars). The land parcels surrounding the project are primarily low density parcels of mostly residential neighborhoods and agriculture.

Conclusion

Replacing this bridge is justified due to its current deficient load rating. The appropriate load rating needs to be “HS-20 + military.” Upgrading the bridge to modern design and load standards will improve the operation and safety of the bridge, and the capacity of the roadway.

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: Major Collector

U. S. Route Number(s): none

State Route Number(s): 230

Traffic (AADT):

Traffic(AADT) Two Way Traffic	SR 230
Current Year: (2013)	500 VPD
Design Year: (2033)	650 VPD
K =	12 %
D =	60%
T =	6 %
24 HR T =	8.5 %
S.U. =	5.5 %
Comb. =	3 %

Existing Design Features:

- Typical Section: Twenty one feet wide of pavement (ten feet-six inch wide lanes) with for feet wide shoulders (two feet paved)
- Posted Speed: 55 mph
- Minimum Radius: 7629 feet
- Maximum Grade: 4 %
- Total Width of Right of Way: 80 feet
- Major Structures: 90 feet long and 26 feet wide Concrete and Steel Bridge
- Major Interchanges or Intersections along the Project: None within the project.
- Existing Length of Roadway Segment:
 SR 230: Begin mile post at 15.13 and ending mile post at 15.27 (Total 0.14 miles)

Proposed Design Features:

- Proposed Typical Section(s): Two twelve feet wide lanes with ten feet wide shoulders (two feet of the shoulder will be paved).
- Proposed Design Speed: 55 mph
- Proposed Maximum Grade Mainline: 4% Maximum Grade Allowable: 7 %
- Proposed Maximum Grade Driveway: 10 %
- Proposed Minimum Radius of Curve: 7629 feet
- Minimum Radius Allowable: 1060 feet
- Right of Way:
 - Width: 80 to 120 feet (estimated total width)
 - Easements: Temporary , Permanent , Utility , Other .
 - Type of access control: Full , Partial , By Permit , Other .
 - Number of parcels: 3 Number of displacements: 0
 - Businesses: 0
 - Residents: 0
 - Mobile Homes: 0
 - Other: 0
- Structures: 100' x 38' Reinforced Concrete Bridge
- Major Intersections and Interchanges: None anticipated
- Traffic Control during Construction: Traffic will be maintained on a offsite detour. (see attached).

- 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
- Environmental Concerns:
 - Wetlands
 - Stream Buffer
- Level of Environmental Analysis:
 - Are Time Savings Procedures appropriate? Yes , No ,
 - Categorical Exclusion
 - Environmental Assessment/Finding of No Significant Impact (FONSI)
 - Environmental Impact Statement (EIS)
- Utility Involvements:
 - Middle Georgia EMC
 - Windstream

Project Responsibilities:

- Design: GDOT
- Right of Way Acquisition: GDOT
- Relocation of Utilities: GDOT
- Letting to contract: GDOT
- Supervision of construction: GDOT
- Providing material pits: Contractor

Coordination:

- Concept Meeting Date and Brief Summary. (date and See attached minutes)
- Other projects in the Area: Dooly 0007172 bridge replacement north of Byromville
- Other Coordination to Date: None

Scheduling – Responsible Parties’ Estimate

- Time to Complete the Environmental Process: 12 Months
- Time to Complete the Preliminary Construction Plans: 6 Months
- Time to Complete Right of Way Plans: 3 Months
- Time to Complete the Section 404 Permit: 6 Months
- Time to Complete Final Construction Plans: 3 Months
- Time to Complete the Purchase of Right of Way: 8 Months
- Time to Complete the Utilities Relocation: 6 Months

Alternates Considered:

- **Alternate 1:** Replace the existing bridge on SR 230 along the existing alignment, close the road and use an offsite detour.
- **Alternate 2:** Replace the existing bridge on SR 230 along the existing alignment and use an onsite runaround detour. This alternate was rejected due to additional cost, and the adverse effects on wetlands and streams.
- **Alternate 3:** Replace the existing bridge on new alignment and maintain traffic on the existing bridge during construction. This alternate was rejected due to additional cost, and the adverse effects on wetlands and streams.
- **Alternate 4:** No Build – This alternative was rejected because it did not meet need and purpose for the project to replace a functionally deficient bridge with H-15 rated piles.

Attachments:

1. Cost Estimates:
 - a. Construction including E&C
 - b. Right of Way
 - c. Utilities
2. Layout
3. Offsite Detours
4. Typical Sections
5. Bridge Inventory Data
6. Concept Team Meeting Minutes
7. Notice of Location and Design Approval

PRELIMINARY COST ESTIMATE

PROJECT NUMBER: CSBRG-0007-00(173) COUNTY: Dooly

PI #: 0007173 DESCRIPTION: SR 230 Bridge replacement at Turkey Creek 5.5 miles North of Byromville

DATE: 12/3/2007 ESTIMATED LETTING DATE: Aug-11

PREPARED BY: Bill Rountree PROJECT LENGTH: 0.144 MILES

PROGRAMMING PROCESS CONCEPT DEVELOPMENT DURING PROJECT DEVELOPMENT

A. RIGHT-OF-WAY: (SEE ATTACHED FOR DETAILS)			
1. PROPERTY (LAND & EASEMENT)	0.57 AC	\$5,000.00 PER AC	\$2,850.00
2. DISPLACEMENTS	RES: 0	BUS: 0	M.H.: 0
3. OTHER COST (ADM./COST, INFLATION)			\$93,850.00
SUBTOTAL: A			\$96,700.00
B. REIMBURSABLE UTILITIES: (NO REINBURSABLE ANTICIPATED SEE ATTACHED)			
1. RAILROAD			\$0.00
2. TRANSMISSION LINES			\$0.00
3. SERVICES (Middle Georgia EMC)			\$20,000.00
SUBTOTAL: B			\$20,000.00
C. CONSTRUCTION:			
1. MAJOR STRUCTURES			
a. BRIDGES (SF OF DECK)	4,050 SF	\$85.00 PER SF	\$344,250.00
b. CULVERTS			
1) CLASS A CONCRETE	0 CY	\$500.00 PER CY	\$0.00
2) BAR REINF STEEL	0 LB	\$0.80 PER LB	\$0.00
c. BRIDGE APPROACH SLAB	270 SY	\$190.00 PER SY	\$51,300.00
SUBTOTAL: C-1			\$395,550.00
2. GRADING AND DRAINAGE			
a. EARTHWORK	30,000 CY	\$10.00 PER CY	\$300,000.00
b. DRAINAGE			
1) CROSS DRAIN PIPE	0 EA	\$4,800.00 PER EA	\$0.00
2) CURB AND GUTTER	0 LF	\$15.00 PER LF	\$0.00
3) SPILLWAY/FLUME	4 EA	\$2,300.00 PER EA	\$9,200.00
SUBTOTAL: C-2			\$309,200.00
3. BASE AND PAVING			
a. AGGREGATE BASE & SURFACE	1,700 TN	\$25.00 PER TN	\$42,500.00
b. ASPHALT PAVING			
1) SURFACE	170 TN	\$100.00 PER TN	\$17,000.00
2) BINDER	270 TN	\$100.00 PER TN	\$27,000.00
3) BASE	540 TN	\$100.00 PER TN	\$54,000.00
SUBTOTAL: C-3.b			\$98,000.00
c. CONCRETE PAVING	0 SY	\$75.00 PER SY	\$0.00
d. BITUM TACK COAT	170 GAL	\$2.00 PER GAL	\$340.00
SUBTOTAL: C-3			\$140,840.00
4. LUMP ITEMS:			
a. GRASSING	2 AC	\$1,600.00 PER AC	\$2,560.00
b. CLEARING AND GRUBBING	3 AC	\$5,000.00 PER AC	\$15,000.00
c. LANDSCAPING			\$0.00
d. EROSION CONTROL (10 % OF CONSTRUCTION COST)		USE \$93,397.00	\$93,400.00
e. TRAFFIC CONTROL			\$50,000.00
SUBTOTAL: C-4			\$160,960.00

5. MISCELLANEOUS:			
a. LIGHTING			\$0.00
b. SIGNING	5 EA	\$560.00 PER EA	\$2,800.00
c. PAVEMENT MARKING	600 LF	\$0.70 PER LF	\$420.00
d. BRIDGE PAVEMENT MARKING	160 LF	\$20.00 PER LF	\$3,200.00
e. GUARDRAIL	600 LF	\$24.00 PER LF	\$14,400.00
f. SIDEWALK	0 SY	\$35.00 PER SY	\$0.00
g. CROSS DRAIN PIPE RIP RAP	0 EA	\$1,000.00 PER EA PIPE	\$0.00
SUBTOTAL: C-5			\$20,820.00
6. SPECIAL FEATURES:			
a.	0 UNIT	\$0.00 COST PER UNIT	\$0.00
SUBTOTAL: C-6			\$0.00
ESTIMATE SUMMARY			
A. RIGHT-OF-WAY			\$96,700.00
B. REIMBURSABLE UTILITIES			\$20,000.00
C. CONSTRUCTION			
1. MAJOR STRUCTURES			\$395,550.00
2. GRADING AND DRAINAGE			\$309,200.00
3. BASE AND PAVING			\$140,840.00
4. LUMP ITEMS			\$160,960.00
5. MISCELLANEOUS			\$20,820.00
6. SPECIAL FEATURES			\$0.00
SUBTOTAL CONSTRUCTION COST			1,027,370
E. & C. (10%)			51,368
INFLATION (5%/YEAR) <i>Cont @ 12%</i>			129,448
TOTAL CONSTRUCTION COST			<u>1,208,187</u>
GRAND TOTAL PROJECT COST			\$1,246,807.00
This project is 100 % in Congressional District 2			

TOTAL CONST COST = \$1,208,187 ✓
 R/W = 97,000
 UTC = 20,000

 TOTAL PROJECT COST = \$1,325,187 ✓

JRL
 5/14/2008

WIDENING COST CALCULATIONS FOR EXISTING BRIDGE

WIDTH OF EXISTING BRIDGE TO RETAIN

26'

WIDTH OF PROPOSED BRIDGE

$$\begin{aligned} \text{WIDTH} &= 38' + 2 \times 1.625 \text{ BARRELS} \\ &= 41.25 \end{aligned}$$

DIFFERENCE IN WIDTH

$$\begin{aligned} \text{DIFFERENCE} &= 41.25' - 26' \\ &= 15.25' \end{aligned}$$

COST OF WIDENING = COST OF BRIDGE PRODUCT.

$$\text{COST} = 15.25 \times 90' \text{ LONG BRIDGE} \times \$180/\text{SF}$$

$$\text{COST} = 247,050$$

$$+ 5\% E = 12,352$$

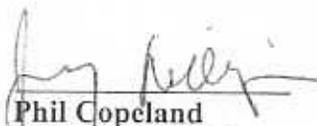
$$+ 12\% C = 31,128$$

$$\begin{array}{r} \$290,530 \text{ say } \$291,000 \end{array}$$

\$180/SF
P2-11/10/08
CONCRETE
W/ BILL INCLUDES
ASST BT BRIDGE ENCL
5/13/2008

5/14/2008

Preliminary Right of Way Cost Estimate


Phil Copeland
 Right of Way Administrator
 By: Jerry Milligan

Date: December 6, 2007
 Project: CSBRG-0007-00(173)Dooly
 Existing/Required R/W: Varies/Varies
 Project Termini : Bridge Replacement on SR 230 over Turkey Creek
 Project Description: Bridge Replacement over SR 230 over Turkey Creek north
 Of Byronville

P.I. Number: 0007173
 No. Parcels: 2

Land: Res/ Ag.: R/W .570 acre @ \$5,000 / acre	\$	2,850
Improvements : Misc. Site Improvements		25,000
Relocation: Residential (0) Commercial (0)		0
Damage : Cost to Cure (0) parcel Proximity (0)parcel Uneconomic Remnant		<u>0</u>
Net Cost	\$	27,850
Net Cost	\$	27,850
Scheduling Contingency 55 %		15,317
Adm/Court Cost 60 %		25,900
Market Appreciation 40 %		<u>27,627</u>
	\$	96,694

Total Cost \$96,700

DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE **CSBRG-0007-00(173), Dooly County, P.I.#0007173** OFFICE Thomaston
SR-230 Bridge Replacement @ Turkey Creek North of Byromville
DATE December 11, 2007

FROM Thomas B. Howell, P.E., District Engineer

TO David Millen, District Preconstruction Engineer

SUBJECT **UTILITY COST ESTIMATE**

The following is a ballpark utility cost estimate for facilities located within the scope of the above referenced project.

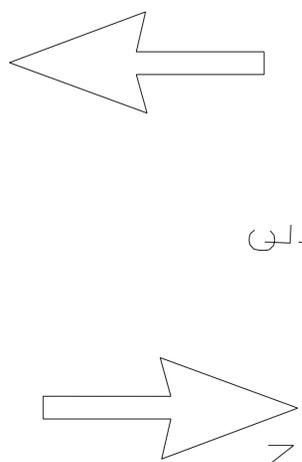
UTILITY OWNER	PUBLIC OR PRIVATE	TYPE OF UTILITY	REIMBURSABLE	NON-REIMBURSABLE
Middle Georgia EMC	Private	Electric	20,000	0
Windstream	Private	Telecom	0	15,000
TOTAL PROJECT COST			\$20,000	\$15,000

If you have any questions, please call Glenn A. Williams at 706-646-6696.

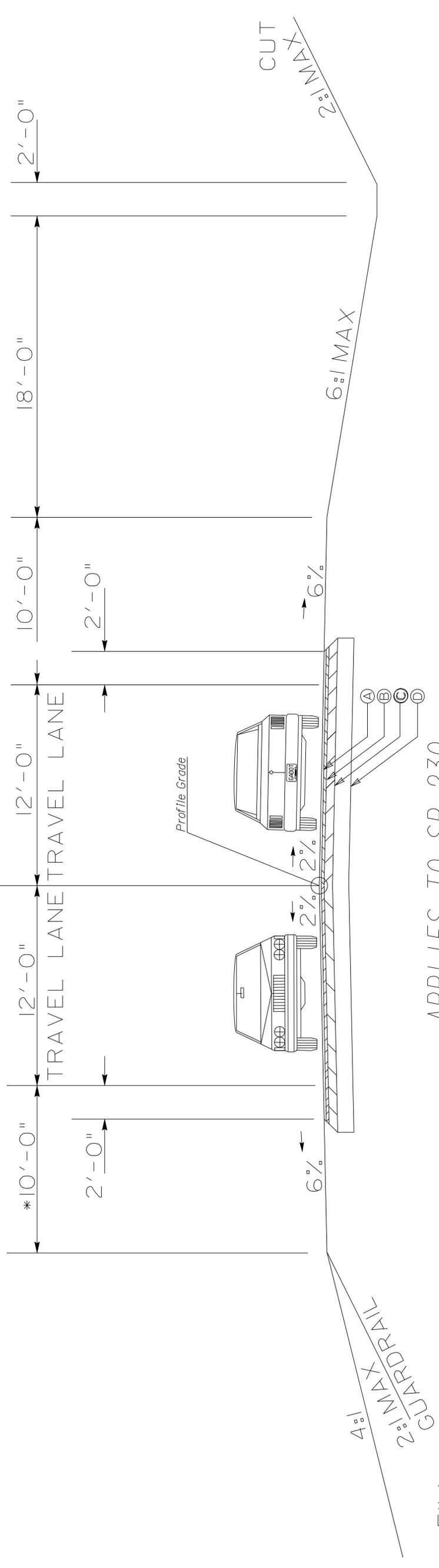
KG:GAW:pls

cc: Bill Rountree, District Design Engineer (*via: e-mail*)

TYPICAL SECTION



* ADD 5'-6" TO SHOULDER WIDTH FOR NORMAL GUARDRAIL INSTALLATION



APPLIES TO SR 230

- Ⓐ ASPHALTIC CONCRETE 9.5 mm SUPERPAVE, TYPE I (135 LBS/SQ. YD)
- Ⓑ ASPHALTIC CONCRETE 19 mm SUPERPAVE, (220 LBS/SQ. YD)
- Ⓒ ASPHALTIC CONCRETE 25.0 mm SUPERPAVE, (440 LBS/SQ. YD)
- Ⓓ GRADED AGGREGATE BASE, 12.0 INCHES

BRIDGE INVENTORY DATA LISTING GEORGIA DEPARTMENT OF TRANSPORTATION

Structure ID: 093-0027-0

Dooly

SUFF. RATING

61.81

Location & Geography

* Structure I.D.No: 093-0027-0
 * 200 Bridge Information 06
 * 6A Feature Int: TURKEY CREEK
 * 6B Critical Bridge: 0
 * 7A Route Number Carried: SR00230
 * 7B Facility Carried: SR 230
 * 9 Location: 5.5 MINE OF BYROMVILLE
 2 DOT District: 3
 207 Year Photo: 2005
 * 91 Inspection Frequency: 24 Date: 07/07/2005
 92A Fract Crit Insp Freq: 00 Date: 02/01/1901
 92B Underwater Insp Freq: 00 Date: 02/01/1901
 92C Other Sp. Insp Freq: 00 Date: 02/01/1901
 * 4 Place Code: 00000
 * 5 Inventory Route (O/U): 1
 Type: 3
 Designation: 1
 Number: 00230
 Direction: 0
 * 16 Latitude: 32-14.6 MMS Prefix: SR
 * 17 Longitude: 083-50.2 MMS Suffix: 00 MP: 15.70
 98 Border Bridge: 000 %Shared: 00
 99 ID Number: 000000000000000
 * 100 STRAHNET: 0
 12 Base Highway Network: 1
 13A LRS Inventory Route: 931023000
 13B Sub Inventory Route: 0
 * 101 Parallel Structure: N
 * 102 Direction of Traffic: 2
 * 264 Road Inventory Mile Post: 015.20
 * 208 Inspection Area: 08 Initials: JLA
 Engineer's Initial: sgm
 * Location I.D. No.: 093-00230D-015.70E

Signs & Attachments

* 104 Highway System: 0
 * 26 Functional Classification: 07
 * 204 Federal Route Type: S No.: 00678
 * 105 Federal Lands Highway: 0
 * 110 Truck Route: 0
 206 School Bus Route: 1
 217 Benchmark Elevation: 0337.30
 218 Datum: 2
 * 19 Bypass Length: 06
 * 20 Toll: 3
 * 21 Maintenance: 01
 * 22 Owner: 01
 * 31 Design Load: 2
 37 Historical Significance: 5
 205 Congressional District: 03
 27 Year Constructed: 1965
 106 Year Reconstructed: 0000
 33 Bridge Median: 0
 34 Skew: 00
 35 Structure Flared: 0
 38 Navigation Control: 0
 213 Special Steel Design: 0
 267 Type of Paint: 4
 * 42 Type of Service on: 1
 Under: 5
 214 Movable Bridge: 0
 203 Type Bridge: E-N-O-O
 259 Pile Encasement: 2
 * 43 Structure Type Main: 1 04
 45 No. Spans Main: 003
 44 Structure Type Appr: 0 00
 46 No. Spans Appr: 0000
 226 Bridge Curve Horz: 0 Vert: 1
 111 Pier Protection: 0
 107 Deck Structure Type: 1
 108 Wearing Surface Type: 1
 Membrane: 0
 Protection: 8
 225 Expansion Joint Type: 02
 242 Deck Drains: 1
 243 Parapet Location: 0
 Height: 0.00
 Width: 0.00
 238 Curb: 1.20 1
 239 Handrail: 1 1
 * 240 Median Barrier Rail: 0
 241 Bridge Median Height: 0.00
 Width: 0.00
 * 230 Guardrail Loc Dir Rear: 3
 Fwd: 3
 Oppo Dir Rear: 0
 Fwd: 0
 244 Approach Slab: 3
 224 Retaining Wall: 0
 233 Posted Speed Limit: 55
 236 Warning Sign: 0
 234 Delineator: 1
 235 Hazard Boards: 1
 237 Utilities Gas: 00
 Water: 00
 Electric: 00
 Telephone: 00
 Sewer: 00
 247 Lighting Street: 0
 Navigaton: 0
 Aerial: 0
 * 248 County Continuity No.: 00

BRIDGE INVENTORY DATA LISTING GEORGIA DEPARTMENT OF TRANSPORTATION

Structure ID: 093-0027-0

Dooly

SUFF. RATING

61.81

Programming Data

201 Project No.: RAB (4) SP 1930-B (2)
 202 Plans Available: 4
 249 Prop. Proj. No. CSBRG-0007-00(17)
 250 Approval Status: 0000
 251 P.J. No.: 0007173
 252 Contract Date: 02/01/1901
 260 Seismic No.: 00000
 75 Type Work: 00 0
 94 Bridge Imp. Cost: \$ 250
 95 Roadway Imp. Cost: \$ 50
 96 Total Imp Cost: \$ 300
 76 Imp. Length: 000000
 97 Imp. Year: 0000
 114 Future ADT: 000810 Year: 2024

Measurements

* 29 ADT: 000540 Year: 2004
 109 % Trucks: 10
 * 28 Lanes On: 02 Under: 00
 210 No. Tracks On: 00 Under: 00
 * 48 Max. Span Length: 0030
 * 49 Structure Length: 90
 51 Br. Rwdy. Width: 26.00
 52 Deck Width: 32.30
 * 47 Tot. Horz. Cl: 26.00
 50 Curb/Sdewlk Width: 2.00/2.00
 32 Approach Rdwy Width: 020
 * 229 Shoulder Width:
 Rear Lt: 7.00 Type: 8 Rt: 7.00
 Fwd Lt: 7.00 Type: 8 Rt: 7.00
 Pavement Width:
 Rear: 20.00 Type: 2
 Fwd: 20.00 Type: 2
 Intersection Rear: 0 Fwd: 0
 36 Safety Features Br. Rail: 2
 Transition: 2
 App. G. Rail: 2
 App. Rail End: 2
 53 Minimum Cl. Over:
 Under: N
 99 ' 99 " 99 ' 99 "
 00 ' 00 " 00 ' 00 "
 * 228 Min. Vertical Cl
 Act. Odm Dir: 99 ' 99 "
 Oppo. Dir: 99 ' 99 "
 Posted Odm. Dir: 00 ' 00 "
 Oppo. Dir: 00 ' 00 "
 55 Lateral Undercl. Rt: N 99.90
 56 Lateral Undercl. Lt: 0.00
 * 10 Max Min Vert Cl: 99 ' 99 " Dir: 0
 39 Nav Vert Cl: 000 Horz: 0000
 116 Nav Vert Cl Closed: 000
 245 Deck Thickness Main: 6.00
 Deck Thick Approach: 0.00
 246 Overlay Thickness: 0.00
 212 Year Last Painted: Sup: 0000 Sub: 2000

Hydraulic Data

215 Waterway Data
 Highwater Elev.: 0000.0 Year: 1900
 Avg. Streambed Elev.: 0000.0 Freq.: 000
 Drainage Area: 08.75
 Area Of Opening: 000000
 113 Scour Critical: U
 216 Water Depth: 1.5 Br. Height: 9.5
 222 Slope Protection: 1
 221 Spur Dikes Rear: 0 Fwd: 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 Diver: ZZZ
 * 265 U/W Insp. Area: 0

* Location I.D. No.: 093-00230D-015.70E

Ratings

65 Inventory Rating Method: 1
 63 Inventory Rating Method: 1
 66 Inventory Type: 2 Rating: 20
 64 Operating Type: 2 Rating: 34
 231 Calculated Loads
 H-Modified: 21 1
 HS-Modified: 24 0
 Type 3: 31 1
 Type 3s2: 30 0
 Timber: 37 1
 Piggyback: 40 0
 261 H Inventory Rating: 15
 262 H Operating Rating: 25
 67 Structural Evaluation: 5
 58 Deck Condition: 6
 59 Superstructure Condition: 5
 * 227 Collision Damage: 0
 60A Substructure Condition: 7
 60B Scour Condition: 8
 60C Underwater Condition: N
 71 Waterway Adequacy: 6
 61 Channel Protection Cond: 7
 68 Deck Geometry: 5
 69 UnderClr. Horz/Vert: N
 72 Appr. Alignment: 7
 62 Culvert: N

Posting Data

70 Bridge Posting Required: 4
 41 Struct Open, Posted, Cl: P
 * 103 Temporary Structure: 0
 232 Posted Loads H-Modified: 21
 HS-Modified: 00
 Type 3: 31
 Type3s2: 00
 Timber: 37
 Piggyback: 00
 253 Notification Date 02/01/1901
 253 Fed Notify Date: 02/01/1901 0

GEORGIA DEPARTMENT OF TRANSPORTATION

Bridge Inspection Report

District: 3
Bridge Inspector: Jeff Allison
Location ID: 093-00230D-015.70E
Structure ID: 093-0027-0

Inspection Date: 7/7/2005
Over: TURKEY CREEK
County: Dooly
Road Name: SR 230

Inspection Area: 08
Bridge Status: 06

EVALUATION & DEFICIENCIES

SubStructure:

Year Painted: 2000

4 - HP10x42 steel piles and concrete caps.
Piles have been encased in concrete.
Cap size 24" D x 24" W x 25"L..

Caps have minor cracking and light spalls..

H-15 Design

10-04-04 - H-22 - Calculated by Central Office - Load Factor

SuperStructure:

Year Painted: 0000

4 - T-beams 3 @ 30'=90' & 18"W x 17" D.

Shear cracking in beam 4 @ bent 3 rear, on both sides, crack is 12" from tip of beam. (See photo)
Beams have minor flexure cracking.
Beams are sagging in span 3.
Minor rust stains from high chairs.

H-15 Design

10-04-04 - H-15 - Calculated by Central Office - Load Factor

Deck:

6" concrete deck
Joints are sealed.

Deck has light to moderate shrinkage cracking and light scaling.

H-15 Design

10-04-04 - H-25 - Calculated by Central Office - Load Factor

General:

Built 1965. 90' x 26'.
Ladder was not needed.
10-04-04 -- Calculated by Central Office - Load Factor

Will monitor deep hole under structure.
High shoulders under guard rail.
Approaches have settled and need leveling.

GEORGIA DEPARTMENT OF TRANSPORTATION

Bridge Inspection Report

District: 3
 Bridge Inspector: Jeff Allison
 Location ID: 093-00230D-015.70E
 Structure ID: 093-0027-0

Inspection Date: 7/7/2005
 Over: TURKEY CREEK
 County: Dooly
 Road Name: SR 230

Inspection Area: 08
 Bridge Status: 06

EVALUATION & DEFICIENCIES

Condition Rating

Component	Material	Rating
Substructure	Steel/Concrete	7
Superstructure	Concrete	5
Deck	Concrete	6

Temp Shored: No

Truck Type	Gross/H-Mod	HMod	Tand	3-S-2	Log	Piggy
Calculated Posting	21	24	31	30	37	40
Posting Required	Yes	No	Yes	No	Yes	No
Existing Posting	21	00	31	00	37	00

School Bus Route.

Structure Requires Posting

GEORGIA DEPARTMENT OF TRANSPORTATION

Deficiency Report

District: 3
Bridge Inspector: Jeff Allison
Location ID: 093-00230D-015.70E
Structure ID: 093-0027-0

Inspection Date: 7/7/2005
Over: TURKEY CREEK
County: Dooly
Asst. District Engineer: Ken Robinson

Inspection Area: 08

EVALUATION & DEFICIENCIES

SR 230 Over TURKEY CREEK-----5.5 MI NE OF BYROMVILLE

Item	Units	Work	P	Date Reported	Location	Date Completed	Complete
830	HOURS	168	A	8/1/1991		10/1/1991	61.00
835	GALLONS	120	B	9/7/1999		10/1/2000	390.00
830	HOURS	56	B	7/31/2003	Shear cracking in beam 4 @ bent 3 rear, interior.		***

Comments:

GEORGIA DEPARTMENT OF TRANSPORTATION

Waterway Report

Inspection Area: 08

Skew: 00

Inspection Date: 7/7/2005

Over: TURKEY CREEK

County: Dooly

Road Name: SR 230

District: 3

Bridge Inspector: Jeff Allison

Location ID: 093-00230D-015.70E

Structure ID: 093-0027-0

Span #:	1	2	3
Length:	30.0	30.0	30.0

Upstream -

	1	2	3	4
Upstream +				
07/01/1997 jem	5.00	9.00	9.00	5.00
09/07/1999 JLA/JD	4.00	9.50	11.00	4.00
10/11/2001 jla/jd	5.50	8.50	9.70	3.50
07/31/2003 JLA/JD	4.70	9.30	8.00	4.00
07/07/2005 JLA/JD	4.50	10.00	9.30	4.30
		10.20	8.00	

Downstream -

	1	2	3	4
Downstream +				
07/01/1997 jem	4.00	10.00	10.00	4.00
09/07/1999 JLA/JD	4.00	10.00	8.50	4.00
10/11/2001 jla/jd	4.00	10.70	8.00	3.70
		8.80	11.40	
07/31/2003 JLA/JD	3.50	9.00	7.60	3.50
		8.50	8.40	
07/07/2005 JLA/JD	3.00	10.80	7.00	3.50
		10.70	8.00	
			7.70	

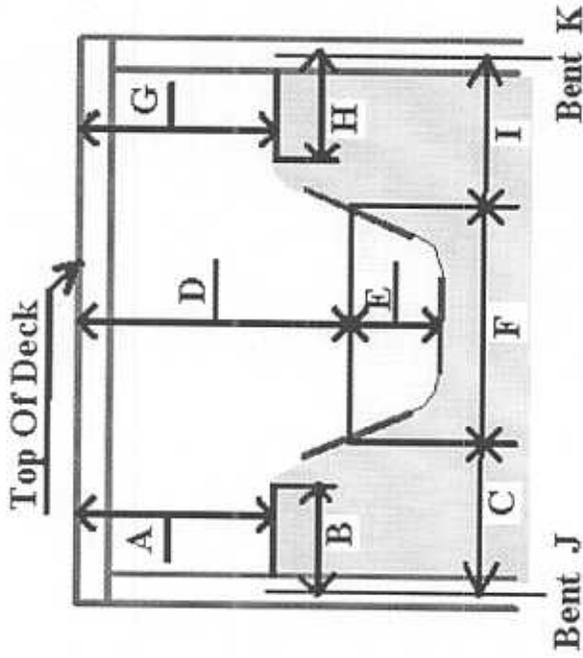
GEORGIA DEPARTMENT OF TRANSPORTATION

Waterway Report

District: 3
 Bridge Inspector: Jeff Allison
 Location ID: 093-00230D-015.70E
 Structure ID: 093-0027-0

Inspection Date: 7/7/2005
 Over: TURKEY CREEK
 County: Dooly
 Road Name: SR 230

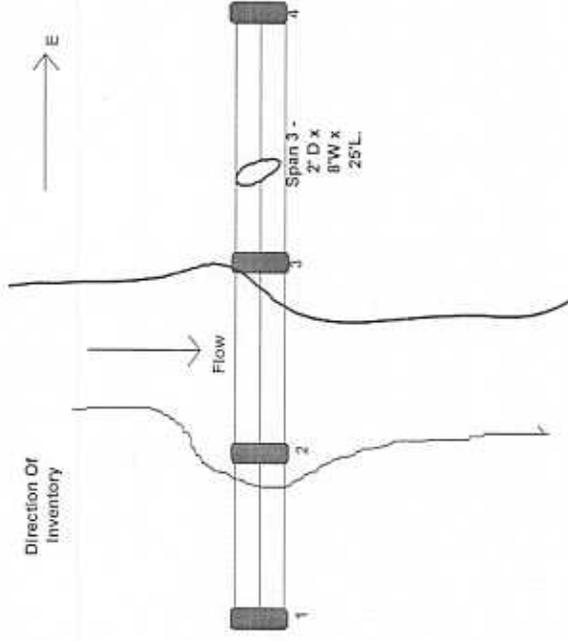
Inspection Area: 08
 Skew: 00



Side view at the Channel.

B, C, H, & I are measured to center of bent or B.F.P.R.

A:	8
B:	24
C:	27
D:	9.5
E:	1.5
F:	34
G:	8
H:	23
I:	29
J:	1
K:	4



Location of Bridge Height 10' forward bt. 2 Upstream

Scour Condition: 8 Waterway Adequacy: 6 Channel Protection: 7

Comments:
None

0 = SubStructure
 0 = Channel Skew
 0 = Stream Angle

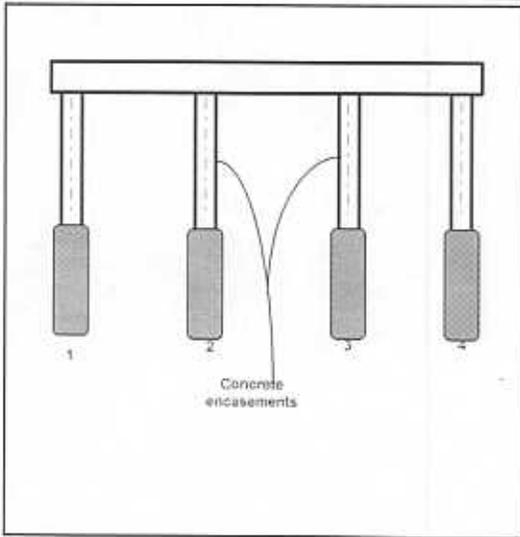
GEORGIA DEPARTMENT OF TRANSPORTATION

SubStructure Report

District: 3
 Bridge Inspector: Jeff Allison
 Location ID: 093-00230D-015.70E
 Structure ID: 093-0027-0

Inspection Date: 7/7/2005
 Over: TURKEY CREEK
 County: Dooly
 Road Name: SR 230

Inspection Area: 08
 Skew: 00



Bent #: 3 Picture Type:
 Deck:
 Material: Concrete Width: 32.30 Depth: 6.00 Plank: 0.00
 Cap:
 Material: Cast-In-Place
 Beam: FWD REAR
 Material: Concrete Concrete FWD REAR
 Width: 18.00 18.00
 Depth: 17.00 17.00
 Steel Beam:
FWD REAR Yr-Fab
 Weight (#/ft): 0 0 1965
 SX (in3): 0 0

Piles:

of Piles: 4 Super Structure Height (ft.): 4.70
 Overburden
 Soil (in.): 0.00 Asphalt (in.): 0.00

<u>Pile</u>	<u>Designation</u>	<u>Defect Loc</u>	<u>SX Loss</u>	<u>Unbrace</u>	<u>Condition</u>	<u>Length</u>	<u>Spacing</u>
1	HP10x42	N/A	0.00	1.70	Encased	5.70	7.50
2	HP10x42	N/A	0.00	1.50	Encased	5.30	7.30
3	HP10x42	N/A	0.00	1.70	Encased	6.40	7.00
4	HP10x42	N/A	0.00	1.90	Encased	5.50	0.00

Comments:

GEORGIA DEPARTMENT OF TRANSPORTATION

Pontis Report

District: 3
Bridge Inspector: Jeff Allison
Location ID: 093-00230D-015.70E
Structure ID: 093-0027-0

Inspection Date: 7/7/2005
Over: TURKEY CREEK
County: Dooly
Road Name: SR 230

Inspection Area: 08

Skew: 00

Element	Quantity	Environment	State1	State2	State3	State4	State5
12	1.00	2	100	0	0	0	0
110	360.00	2	100	0	0	0	0
202	8.00	2	100	0	0	0	0
215	65.00	2	100	0	0	0	0
234	65.00	2	100	0	0	0	0
301	129.00	2	100	0	0	0	0
321	2.00	2	100	0	0	0	0
331	180.00	2	100	0	0	0	0

GEORGIA DEPARTMENT OF TRANSPORTATION

Bridge Component Report

District: 3
 Bridge Inspector: Jeff Allison
 Location ID: 093-00230D-015.70E
 Structure ID: 093-0027-0

Inspection Area: 08
 Inspection Date: 7/7/2005
 Over: TURKEY CREEK
 County: Dooley
 Road Name: SR 230

SubStructure Data

Bent#	Type	Foundation	Col	#Cols	Piling	#Piles	Sway	CAP	Remarks
1	A	ZZ		0		0		C	
2	B	DP		0	S	4		C	
3	B	DP		0	S	4		C	
4	A	ZZ		0		0		C	

SuperStructure Data

Span#	Beam Type	Spacing	Length	#Beams	Remarks
1	Concrete	7.30	30.00	4	T-beams 18W x 17D
2	Concrete	7.30	30.00	4	T-beams 18W x 17D
3	Concrete	7.30	30.00	4	T-beams 18W x 17D

Bearing Data

Span#	Rear Type Bearing	FWD Type Bearing	Remarks
1	08 - Beam on Cap	08 - Beam on Cap	
2	08 - Beam on Cap	08 - Beam on Cap	
3	08 - Beam on Cap	08 - Beam on Cap	

CONCEPT TEAM MEETING MINUTES

CSBRG-0007-00(173) – Dooly County

P.I. 0007173

SR 230 @ TURKEY CREEK 5.5 MI NORTHEAST OF BRYOMVILLE

The concept team meeting for Georgia DOT project above was held at 3:00 P.M. on Monday, January 7th, 2008 with Bill Rountree, P.E., District 3 Design Engineer officiating. Team members present were:

Bill Rountree	GDOT, District 3 Design Engineer (706-646-6990), bill.rontree@dot.state.ga.us
Debra Pruitt	GDOT, District 3 Environmentalist (706-646-6984), debra.pruitt@dot.state.ga.us
Kerry Gore	GDOT, District 3 District Utility Engineer (706-646-6692), kerry.gore@dot.state.ga.us
David Millen	GDOT, District 3 Preconstruction Engineer (706-646-6987), david.millen@dot.state.ga.us
Jack Reed	GDOT, District 3 Design Squad Leader (706-646-6991), jack.reed@dot.state.ga.us
Brink Stokes	GDOT, District 3 Area Engineer (478-988-7151), brink.stokes@dot.state.ga.us
Tom Queen	GDOT, District 3 Planning and Programming (706-646-6982), tom.queen@dot.state.ga.us

The following constitutes the minutes for the concept team meeting. The minutes are a summary in nature and do not attempt to document every item discussed nor statement made. Should your recollection differ from what is contained herein or you wish to add something, please contact Bill Rountree at 706-646-6990, or via e-mail at bill.rountree@dot.state.ga.us.

- I. The meeting began at approximately 3:00 P.M.
- II. Each member was provided with a concept report draft, meeting agenda and a current TPRO project schedule. A layout of the concept design and proposed offsite detour were displayed as visual aides. It was requested that comments or questions be withheld until after a review of the concept report draft. It was further requested that comments be written on the back of the meeting agenda and turned in to Jack Reed at the end of the meeting.
- III. Bill Rountree began by giving a project description using a video of the project and the project layout.
- IV. Additionally, Bill Rountree led the group through the draft concept report. The project is in the S.T.I.P.
- V. Following the draft concept report review, comments and questions were requested from members present. Such comments have been listed below and are categorized by department.
 - a. Planning: No comments
 - b. Office of Financial Management: Not present but commented by email:
Ruksana Az-zahir stated:
 - PE 2007(AUTHORIZED)
 - RW 2011
 - CST LR

- NOTIFICATION LETTER SENT TO DOOLY 06-16-08
- LATEST COST ESTIMATE RECEIVED 12-01-04

- c. Environmental: No comments
 - d. Utilities: No comments
 - a. Right of Way: Not present
 - e. Traffic Operations: Not present
 - f. Construction: No additional comments
 - g. Maintenance: Not present
 - h. Location: Not present
 - i. County: Not present
 - j. Preconstruction: David Millen does not want this bridge constructed at the same time as PI. NO. 0007172 Dooly. He also wants to make sure new GDOT Bridge Design Standards are incorporated into the design of bridge.
- VI. The overall consensus of the members of the design team was to proceed with project as proposed.
- VII. The meeting was adjourned at approximately 4:00 P.M.