ORIGINAL TO GENERAL FILES

D.O.T. 66

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE BRST-219-1(1) Chatham County
P. I. No. 533205

OFFICE Preconstruction

DATE December 31, 2002

Margaret B. Pirkle

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

TO SEE DISTRIBUTION

SUBJECT **PROJECT CONCEPT REPORT APPROVAL**(CORRECTED)

Attached for your files is the approval for subject project. **Please disregard the report approval dated October 25, 2002.**

MBP/cj

Attachment

DISTRIBUTION:

David Mulling
Harvey Keepler
Jerry Hobbs
Herman Griffin
Michael Henry
Phillip Allen
Marta Rosen
Paul Liles
Ben Buchan
Joe Palladi
Gary Priester
BOARD MEMBER

D.O.T. 66

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE BRST-219-1(1) Chatham County
P.I. No. 533205

OFFICE Preconstruction

DATE December 11, 2002

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

TO Frank L. Danchetz, P.E., Chief Engineer
Muss

SUBJECT PROJECT CONCEPT REPORT

This project is the replacement of a bridge culvert on eastbound CR 302/Montgomery Cross Road over Casey Canal, 1.0 mile east of SR 204 in Savannah, Georgia. Presently the cross section of this bridge culvert is not adequate to carry the flow in the Casey Canal and maintain the desirable headwater elevation. Replacing the culvert will help prevent the flooding associated with inadequate drainage as well as provide safe passage for vehicles traveling on CR 302. The existing roadway section consists of two, 12' lanes in each direction separated by a 25' grassed median that transitions into a 14' flush median section. The base year traffic (2003) is 22,300 VPD and the design year traffic (2023) is 33,000 VPD.

The construction proposes to widen the existing westbound bridge over Casey Canal to replace the existing eastbound bridge culvert. The westbound bridge will be widened to accommodate two additional 12' lanes, a 20' raised median, and a 6' sidewalk in the eastbound direction. The proposed project length is 0.22 mile and the approximate length of the bridge is 108'. Traffic will be maintained during construction.

Environmental concerns include requiring a COE 404 Permit; a Categorical Exclusion will be prepared; a public hearing is not required; time saving procedures are appropriate.

The estimated costs for this project are:

	PROPOSED	APPROVED	PROG DATE	LET DATE
Construction (includes E&C and inflation)	$ 677,000	$738,000	2005	FY-05
Right-of-Way & Utilities*	Local	Local		

*City of Savannah signed LGPA for right-of-way, utilities and detours 8-30-01.

BRST-219-1(1) Chatham
December 11, 2002

This project is in the STIP. I recommend this project concept be approved.

MBP:JDQ/cj

Attachment

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

APPROVE _____
Frank L. Danchetz, P.E., Chief Engineer

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENTAL CORRESPONDENCE

FILE: BRST-219-1(1) Chatham
P.I. Number 533205

OFFICE: Engineering Services

DATE: November 15, 2002

FROM: David Mulling, Project Review Engineer REW

TO: Meg Pirkle, Assistant Director of Preconstruction

SUBJECT: **CONCEPT REPORT**

We have reviewed the concept report submitted November 4, 2002 by the letter from Joe Palladi dated October 25, 2002, and have the following comments.

- Estimated Right of Way and Utility costs should be provided for informational purposes.
- ~~According to the Concept Report CR-302 is included in a Statewide Bicycle Plan. The roadway and bridge typical sections should reflect the current design features to accommodate the bike lane.~~

CR 302 IS NOT ON THE STATEWIDE BICYCLE PLAN
— 11/19/2002

The costs for this project are:

Construction	$588,115
Inflation	$29,408
E&C	$58,812
Reimbursable Utilities	Not provided (LGPA anticipated)
Right of Way	Not provided (LGPA anticipated)

REW

c: Joe Palladi, Attn: Darryl VanMeter

SCORING RESULTS AS PER MOG 2440-2

Project Number:	County:	PI No.:
BRST-219-1(1)	Chatham	533205

Report Date:	Concept By:
October 25, 2002	DOT Office: Urban Design
☒ Concept Stage	Consultant:

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

FOCUS AREAS	SCORE	RESULTS
Presentation	90	Estimated right of way and utility relocation costs should be provided for information. Roadway typical section does not appear to reflect the width required for bike lanes.
Judgement	100	
Environmental	100	
Right of Way	100	
Utility	100	
Constructability	100	
Schedule	100	

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

Office of Urban Design

PROJECT CONCEPT REPORT

Project Number: BRST-219-1(1)

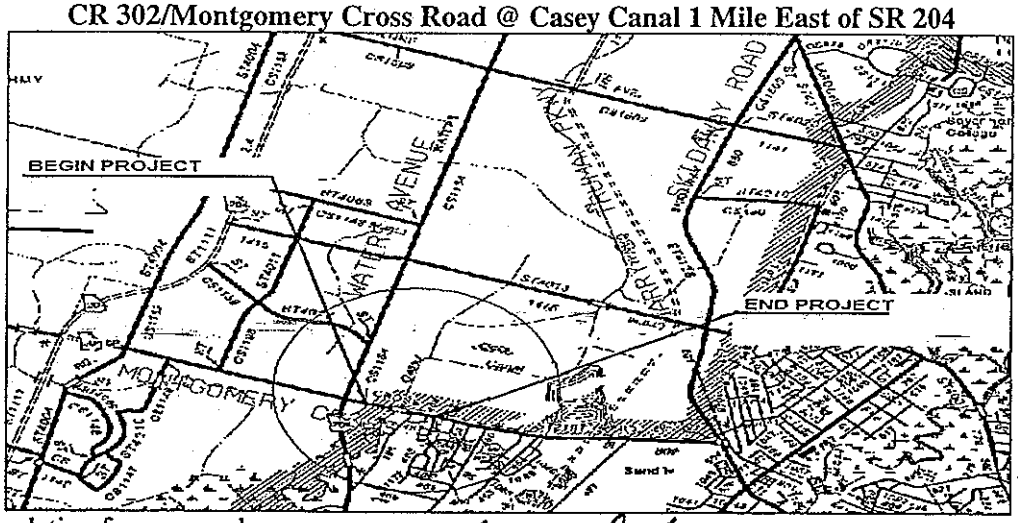
County: Chatham County

P. I. Number: 533205

State Route Number: N/A

Federal Route Number: N/A

CR 302/Montgomery Cross Road @ Casey Canal 1 Mile East of SR 204



Recommendation for approval:

DATE 10/25/02 _____ Project Manager

DATE 11/1/02 _____ State Urban Design Engineer

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

DATE 11/13/02 _____ State Transportation Planning Administrator

DATE _____ _____ State Financial Management Administrator

DATE _____ _____ State Environmental/Location Engineer

DATE _____ _____ State Traffic Safety and Design Engineer

DATE _____ _____ District Engineer

DATE _____ _____ Project Review Engineer

DATE _____ _____ State Structural and Bridge Design Engineer

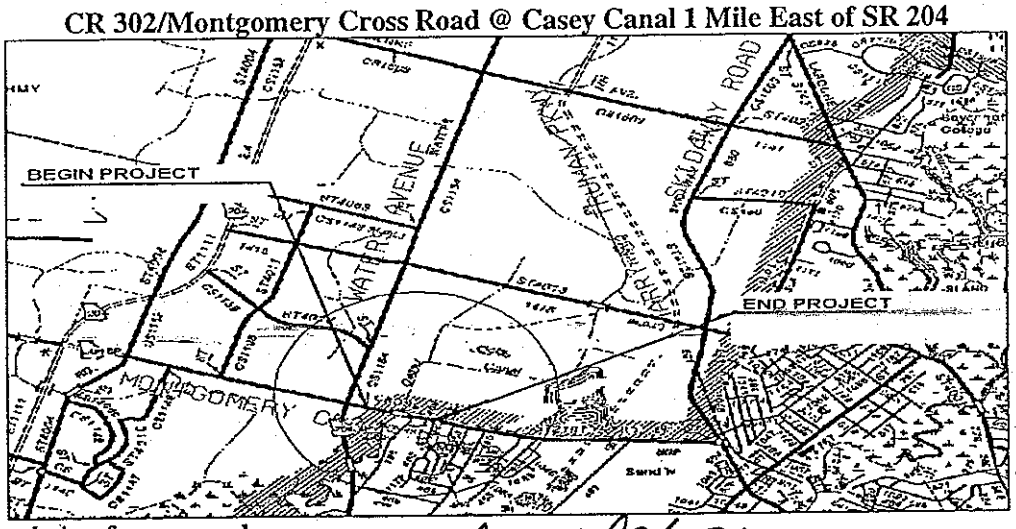
DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

Office of Urban Design

PROJECT CONCEPT REPORT

Project Number: BRST-219-1(1)
County: Chatham County
P. I. Number: 533205
State Route Number: N/A
Federal Route Number: N/A

CR 302/Montgomery Cross Road @ Casey Canal 1 Mile East of SR 204



Recommendation for approval:

DATE 10/25/02 _____ Project Manager

DATE 11/1/02 _____ State Urban Design Engineer

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DATE _____ _____ State Transportation Planning Administrator

DATE _____ _____ State Financial Management Administrator

DATE _____ _____ State Environmental/Location Engineer

DATE _____ _____ State Traffic Safety and Design Engineer

DATE _____ _____ District Engineer

DATE _____ _____ Project Review Engineer

DATE 11/9/02 _____ State Structural and Bridge Design Engineer

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE BRST-219-1(1), Chatham
PI 533205
CR 302/Montgomery Cross Road @ Casey
Canal 1 Mile East of SR 204

OFFICE Urban Design

DATE October 25, 2002

FROM Joseph P. Palladi, P.E., State Urban Design Engineer

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

NOV - 4 2002

SUBJECT **Project 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 you have any questions concerning this matter, please call Darryl VanMeter or Theresa Holder at (404) 656-5447.

JPP:DVM: trh
Attachment

cc: David Mulling, Project Review Engineer, w/attachment
Harvey Keepler, State Environmental/Location Engineer, w/attachment
Phillip Allen, State Traffic Safety and Design Engineer, w/attachment
Marta Rosen, State Transportation Planning Administrator, w/attachment
Herman Griffin, Financial Management Administrator, w/attachment
Paul Liles, State Bridge & Structural Engineer, w/attachment
Gary Priester, District 5 Engineer, w/attachment

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

Office of Urban Design

PROJECT CONCEPT REPORT

Project Number: BRST-219-1(1)

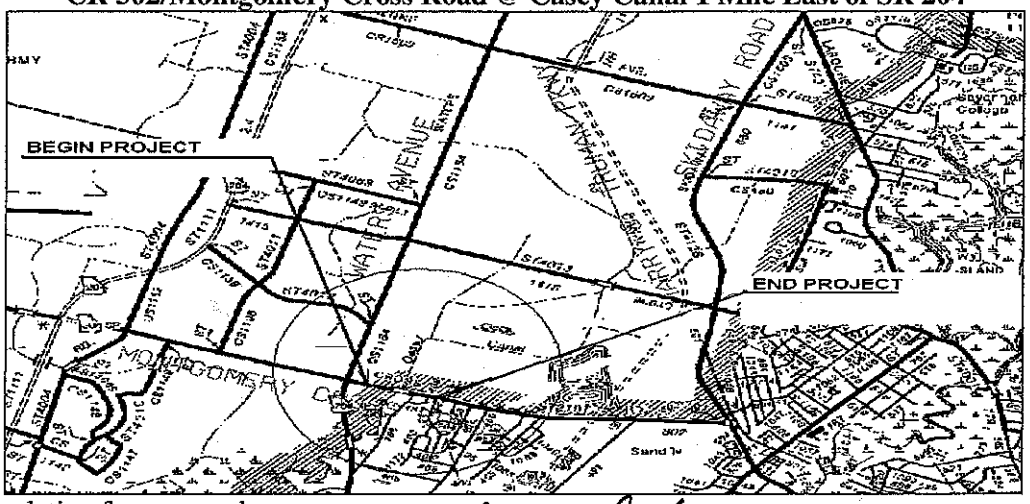
County: Chatham County

P. I. Number: 533205

State Route Number: N/A

Federal Route Number: N/A

CR 302/Montgomery Cross Road @ Casey Canal 1 Mile East of SR 204



Recommendation for approval:

DATE 10/25/02 _____ Project Manager

DATE 11/1/02 _____ State Urban Design Engineer

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

DATE _____ _____ State Transportation Planning Administrator

DATE _____ _____ State Financial Management Administrator

DATE _____ _____ State Environmental/Location Engineer

DATE _____ _____ State Traffic Safety and Design Engineer

DATE _____ _____ District Engineer

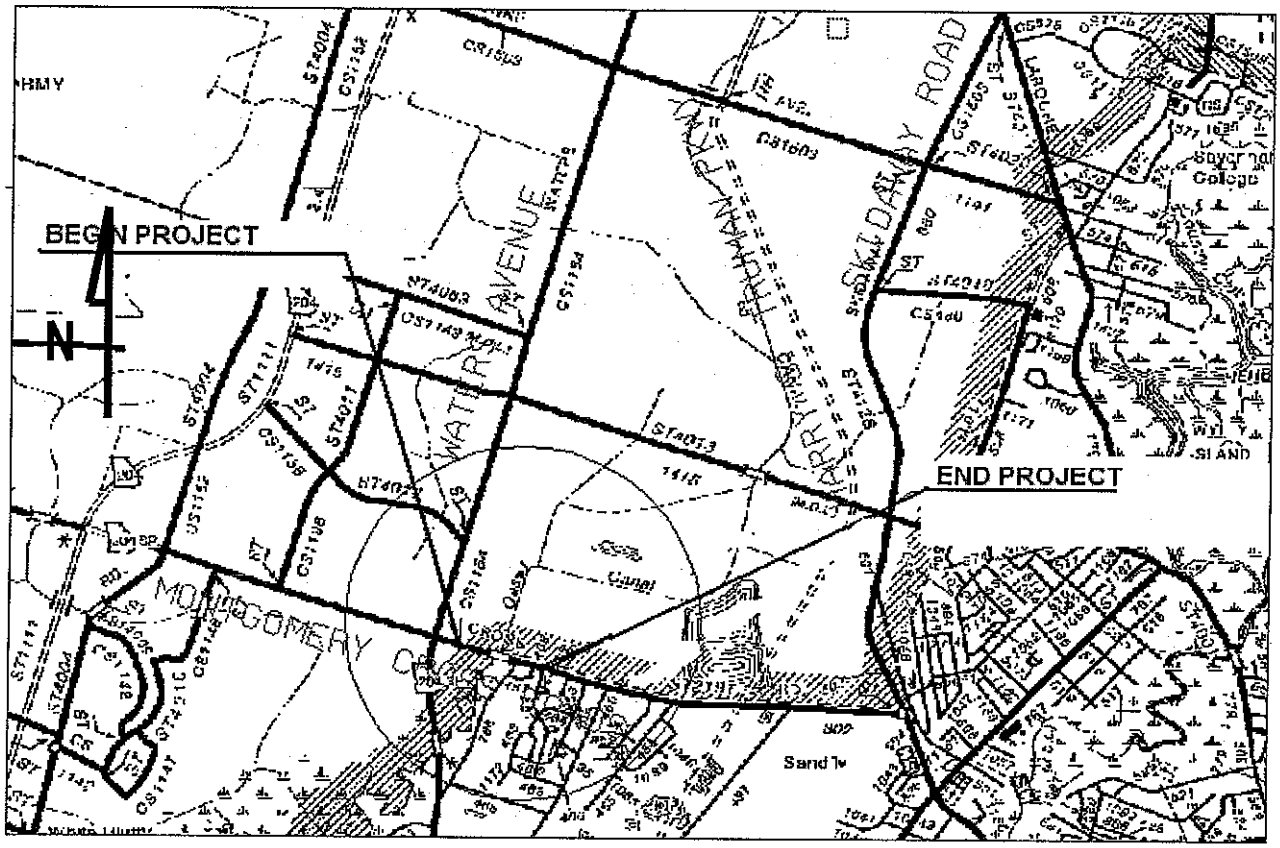
DATE _____ _____ Project Review Engineer

DATE _____ _____ State Structural and Bridge Design Engineer

Project Concept Report
Project Number: BRST-219-1 (1)
P.I, Number: 533205
County: Chatham

CR 302/Montgomery Cross Road @ Casey Canal 1 Mile East of SR 204

Project Location Map
NOT TO SCALE



Need and Purpose: Bridge project BRST-219-1(1) will replace the Montgomery Cross Road Bridge Culvert located on County Road 302 over Casey Canal, 1 mile east of SR 204. This bridge project will improve one of Savannah's major drainage problems. Presently the cross section of this bridge culvert is not adequate to carry the flow in the Casey Canal and maintain the desirable Headwater elevation.

"NOT" — Del

County Road 302 is functionally classified as an urban principal arterial. The posted speed limit along CR 302 is 40 mph. The section where the proposed bridge project would take place is a school bus route. CR 302 is part of the Statewide Bicycle Plan. The bridge is located 1 mile east of SR 204 and was constructed in 1930. Sidewalks are proposed on the new bridge. Trucks represent 4% of the traffic on CR 302. The Average Daily Traffic (ADT) along this section of highway for 2003 is 22,300. The projected (2023) ADT for this section of highway is 33,000 based upon a 2% per year growth rate. Currently no roadway improvements are in the Construction Work Program for CR 302 in this vicinity.

Replacing the bridge culvert is needed to facilitate the discharge of storm water from the Casey Canal which will help prevent the flooding associated with inadequate drainage as well as provide safe passage for vehicles traveling on CR 302.

Description of the proposed project: This project consists of widening the existing Westbound Bridge over Casey Canal to replace the existing Eastbound Bridge Culvert. The Westbound Bridge will be widened to accommodate two additional 12 foot lanes, a 20 foot raised median, and a six foot sidewalk in the eastbound direction. The project will also improve the cross slope of the existing bridge from 3/16 in/ft to 1/4 in/ft in order to improve the drainage of the roadway. The project is located in east Chatham County approximately one mile east of SR 204 within the city of Savannah. The approximate length of the bridge is 108 feet. The proposed length of the project is 0.22 miles.

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

PDP Classification: Major _____ **Minor** __X__
Federal Oversight: Full Oversight ( ), Exempt(X), State Funded( ), or Other ( )

Functional Classification: Urban Principal Arterial

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

Traffic (AADT):
Current Year: (2003) 22300 Design Year: (2023) 33000

Existing design features:

- Typical Section: The existing roadway section consists of 2 – 12 foot lanes in each direction with curb and gutter separated by a 25 foot grassed median that transitions into a 14 foot flush median.
- Posted Speed: 45 mph Maximum degree of curvature: Tangent
- Maximum grade: 1.43 %
- Width of right of way: 125 ft.
- Major structures:
  - Reinforced Concrete Bridge Culvert over Casey Canal (2) – 11' x 15' Barrels and (3) – 48" RCP
  - Barrel length = 34 feet
  - Sufficiency Rating = 91.20
- Major interchanges or intersections along the project: SR 204/Abercorn St (one mile west of project), Harry S. Truman Parkway Phase 3, under construction (one mile east of project, Waters Avenue, and Sallie Mood Drive.
- Existing length of roadway segment and the beginning mile logs for each county segment. The existing length of roadway is approximately 0.22 miles located entirely in Chatham County.

Proposed Design Features:

- Proposed typical section(s):
  - Roadway: 4 – 12 foot lanes separated by a 20 foot raised grassed median and 12 foot shoulders.
  - Bridge: 4-12 foot lanes separated by a 20 foot raised concrete median and 6 foot sidewalks on both sides.
- Proposed Design Speed Mainline 45 mph
- Proposed Maximum grade Mainline 1.43 % Maximum grade allowable 8%
- Proposed Maximum grade Side Street N/A % Maximum grade allowable N/A %.
- Proposed Maximum grade driveway N/A %
- Proposed Maximum degree of curve Tangent . Maximum degree allowable 8^0
- Right of way
  - Width 125'
  - Easements: Temporary (x), Permanent ( ), Utility (x), Other ( ).
  - Type of access control: Full ( ), Partial ( ), By Permit ( ), Other (x).
  - Number of parcels: 0 Number of displacements:
    - Business: 0
    - Residences: 0
    - Mobile homes: 0
    - Other: 0
- Structures:
  - Bridges: A 108'x 43' bridge over the Casey Canal.
- Retaining walls : N/A
- Major intersections and interchanges: N/A

- Traffic control during construction: The Westbound Bridge will be widened in the median to accommodate 2-11 foot lanes in the eastbound direction and the existing westbound lanes will be re-striped to 2-11 foot lanes. The eastbound traffic will then be shifted onto the new bridge section as the existing Eastbound Bridge Culvert is removed for the additional widening of the Westbound Bridge. Eastbound traffic will then be shifted to their final position and the westbound traffic will be shifted to the median to accomplish the cross-slope correction with overlay. The raised median will be constructed when both the EB & WB traffic are in their final position.

- Design Exceptions to controlling criteria anticipated: None

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

- Design Variances: A design variance may be required for the omission of left and right turn lanes at the intersection of Montgomery Cross Roads and Old Whitfield Avenue based on MOG 6638. The existing conditions do not provide a left or right turn lane at the intersection; however, adding the turn lanes may be outside the scope of this project which is drainage improvements. Addition of the turn lanes will be studied and if necessary, a design variance will be processed.

- Environmental concerns: A 404 permit will be required for this project.
- Level of environmental analysis:
  - Are Time Savings Procedures appropriate? Yes (X), No ( ),
  - Categorical exclusion (X),
  - Environmental Assessment/Finding of No Significant Impact (FONSI) ( ), or
  - Environmental Impact Statement (EIS) ( ).
- Utility involvements: The existing utilities in the project area are City of Savannah Water and Sewer, Savannah Electric and Power Company, and Bellsouth Telecommunications.

Project responsibilities:

- Design-GDOT
- Right of Way Acquisition-City of Savannah
- Relocation of Utilities- City of Savannah
- Letting to contract-GDOT
- Supervision of construction-GDOT
- Providing material pits- City of Savannah
- Providing detours- City of Savannah

Coordination

- Concept meeting date and brief summary. Concept meeting was held on September 16, 2002. Refer to Attachment # 5 for meeting minutes.
- P. A. R. meetings, dates and results.(Not Required)
- FEMA, USCG, and/or TVA. (Coordination is on going with the City of Savannah Drainage Study)
- Public involvement. (No PIM expected)
- Local government comments. The City of Savannah Facilities Maintenance Director provided a letter from the City's consultant in regards to the cross sectional area of the proposed bridge. It was recommended by the City's consultant, EMC, that the existing eastbound bridge be replaced with a bridge similar to the existing westbound bridge's cross sectional area.(See Attachment #8)
- The City of Savannah also requested that the completion of this project is coordinated with the completion of Harry S. Truman – Phase 3 currently under construction, in order to alleviate potential traffic control problems with the increased traffic from Truman.
- Other projects in the area.
    - PI 521508- Harry S. Truman Phase 3 – Under Construction
    - PI 521505- Harry S. Truman Phase 4
    - PI 550560- Whitfield Ave/SR 204SP fm Old Whitfield to Ferguson Ave
    - PI 550570- Middleground/ Montgomery Cross Road
- Railroads – N/A

Scheduling – Responsible Parties' Estimate

- Time to complete the environmental process: ____8____Months.
- Time to complete preliminary construction plans: ____4____Months.
- Time to complete right of way plans: ____2____Months.
- Time to complete the Section 404 Permit: ____4-6____Months.
- Time to complete final construction plans: ____8____Months.
- Time to complete to purchase right of way: ____2____Months.
- List other major items that will affect the project schedule: None

Other alternates considered: The existing Bridge Culvert is not listed on the Department's Historic Bridge Inventory List as having preservation potential so replacing the bridge is feasible. Building a parallel structure was considered, but is not preferred due to the improved and more desirable median features associated with a continuous deck. The no-build alternate does not satisfy the Need and Purpose of the project.

Attachments:

1. Cost Estimate
2. Typical sections
3. Accident summaries
4. Bridge inventory
5. Minutes of Concept meeting
6. Project Management Agreement
7. Location and Design Notice
8. City of Savannah's Bridge Recommendation Letter

ATTACHMENT # 1

PRELIMINARY COST ESTIMATE

Project: BRST-219-1(1)
County: Chatham
PI No. 533205

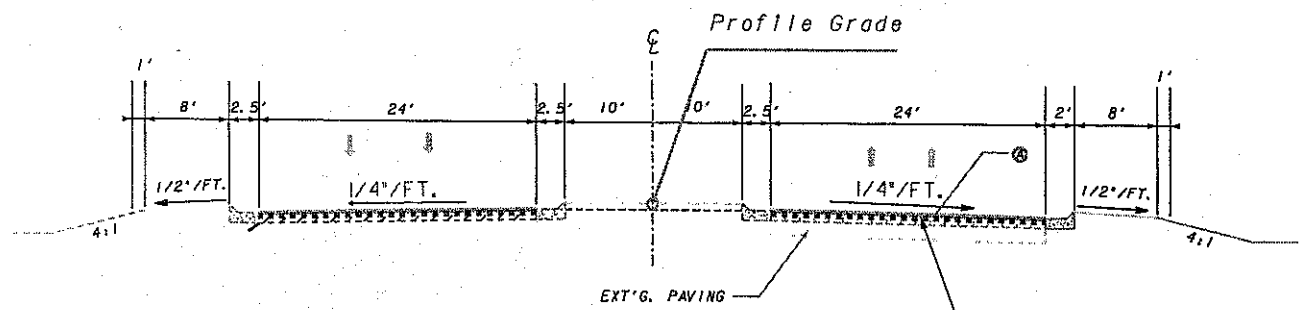
Project Description: CR 302/Montgomery Cross Road @ Casey Canal

LUMP SUM ITEMS	QUAN	UNITS	WDTH	LGTH	HGTH	AREA	COST	TOTAL
Traffic Control		LS					$20,000.00	$20,000.00
Erosion Control		LS					$7,500.00	$7,500.00
Removal of Existing Bridge		LS					$67,000.00	$67,000.00
ROADWAY ITEMS								
Signing and Marking								
Traffic Stripe Yellow				6000			$1.50	$9,000.00
Thermoplastic Stripe White				3000			$0.85	$2,550.00
Thermoplastic Stripe Yellow				2500			$0.95	$2,375.00
Guardrail Impact Attenuator	1	ea					$15,000.00	$15,000.00
Precast Concrete Barrier		ft		1500			$27.00	$40,500.00
Guardrail								
T-Beam		ft		30			$62.00	$1,860.00
W-Beam		ft		50			$10.00	$500.00
Anchorages								
Type 1	1	ea					$455.00	$455.00
Type 12	1	ea					$1,300.00	$1,300.00
MAJOR STRUCTURES								
EB Casey Canal Bridge		ft^2	43	108		4644	$54.00	$250,776.00
Bridge Excavation		yd^3	43	5	12	2580	$20.00	$51,600.00
CONCRETE								
RC Approach Slab		yd^2				283	$126.00	$35,658.00
Concrete Median		yd^2	16	108		192	$32.00	$6,144.00
Sidewalk		yd^2	6	108		72	$26.00	$1,872.00
Curb and Gutter		lf		500			$10.00	$5,000.00
BASE AND PAVING ITEMS								
12.5 mm Superpave 165 lb/yd^2	1200	TONS	24	260		6240	$38.00	$45,600.00
19 mm Superpave 440 lb/yd^2	75	TONS	24	260		6240	$36.00	$2,700.00
25 mm Superpave 660 lb/yd^2	225	TONS	24	260		6240	$37.00	$8,325.00
10 IN GAB	680	yd^2				6760	$5.00	$3,400.00
Asph. Concrete Milling 11/2 in	6000	yd^2					$1.50	$9,000.00
SUBTOTAL CONSTRUCTION COST								$588,115.00
E. & C. (10%)								$58,811.50
INFLATION 1 YR @ 5% / YR								$91,157.83
GRAND TOTAL CONSTRUCTION COST								$738,084.33

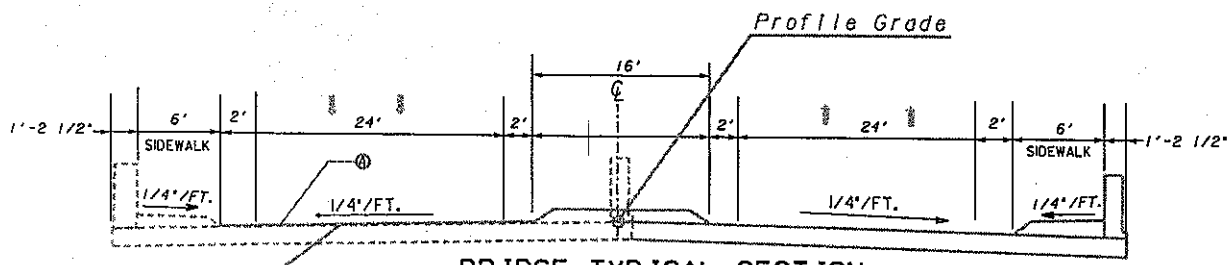
Attachment #2

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	BRST-219-1(1)		

REVISION DATES

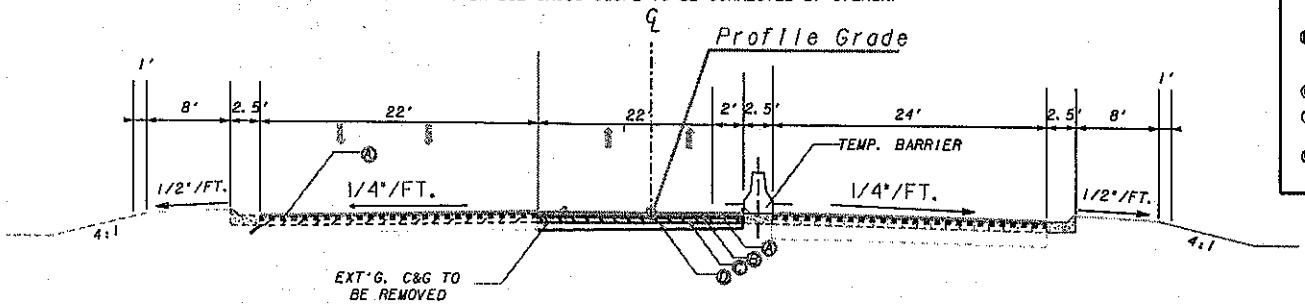


ROADWAY TYPICAL SECTION



BRIDGE TYPICAL SECTION

NOTE: EXISTING BRIDGE CROSS SLOPE TO BE CORRECTED BY OVERLAY



DETOUR TYPICAL SECTION

NOT TO SCALE

EXPECTED DETOUR PAVEMENT DESIGN

- Ⓐ 165 lb/yd^2 ASPHALTIC CONCRETE, 12.5 mm SUPERPAVE
- Ⓑ 660 lb/yd^2 ASPHALTIC CONCRETE, 19mm SUPERPAVE
- Ⓒ 440 lb/yd^2 ASPHALTIC CONCRETE 25mm SUPERPAVE
- Ⓓ 10 IN GRADED AGGREGATE BASE
- Ⓔ ASPHALTIC CONCRETE LEVELING AS REQUIRED

STATE OF GEORGIA DEPARTMENT OF TRANSPORTATION OFFICE OF URBAN DESIGN	TYPICAL SECTION MONTGOMERY CROSSROAD OVER CASEY CANAL	DRAWING No.

...\dgn\533205typ.dgn Sep. 24, 2002 07:48:53

ATTACHMENT # 3

ACCIDENT HISTORY

Waters Avenue to Salliemood Road

	1995		1996		1997	
	C.R. 302	State	C.R. 302	State	C.R. 302	State
Total Accidents	96		91		84	
Accident Rates	913	661	942	671	727	663
Injuries	29		39		32	
Injury Rate	276	319	404	316	277	298
Fatalities	0		0		1	
Fatality Rate	0.00	1.56	0.00	1.59	8.65	1.71

Note: Rates are per 100 million vehicle miles of travel.
Statewide rates for similar facilities (Non-Freeway Urban Principal Arteries)

Attachment # 4

GEORGIA DEPARTMENT OF TRANSPORTATION

Culvert Bridge Inspection Report

District: 5
Bridge Inspector: Joe Cannon
Location ID: 051-04001M-005.99E
Structure ID: 051-0139-0

Inspection Date: 7/6/00
Over: CASEY CANAL
County: Chatham
Road Name: MONTGOMERY CROSSRD

Inspection Area: 05
Bridge Status: 07
Skew: 00

EVALUATION & DEFICIENCIES

Construction Date: 1930
Year Reconstructed: 0000
Culvert Type: Q-RCBC - Reinforced concrete bridge culvert.
3-Apron on both inlet and ou

2 Barrels at 15.00 X 11.00 Barrel Length: 34.00 Ft. Under 001 Feet of Fill.

Pipe Beveled: Inlet () Outlet () Toe Wall: Inlet () Outlet ()

Channel Bed Probing: (Location of Probing & Findings)

The channel bed was probed upstream and downstream to firm material.
The stream bed is sandy silt material.
This material is highly septable to scour.

Inlet probed 2' to firm material.

Outlet probed 2' to firm material.

Channel Bed Scour: (Scour Description & Extent)

Inlrt-------->None.

Otlet-----> None.

Inspection Procedures & Findings

The culvert has an aporn on both ends.
The aporn is in good condition.
This culvert is an old culvert that also has tide gates.
Upstream side has ,wall extension,for utilitys.
TIDAL ZONE.
NOTE---,There are 2 barrels,11' X 15' and 3 concrete pipes,48".

CULVERT #3

Deficiencys noted;
1)Heavy cracking,and scaling in culvert barrels,and wing wallswith honeycombing at the water line,(No repair)

Recommended repairs:
1) None.

Culvert Condition Code:

6-Initial deterioration, chloride contamination, efflorescence, or spalls.

Scour Condition Code 8-Negligble present.

*****Shool Bus Route.******

Structure Does Not Require Posting

Attachment #4

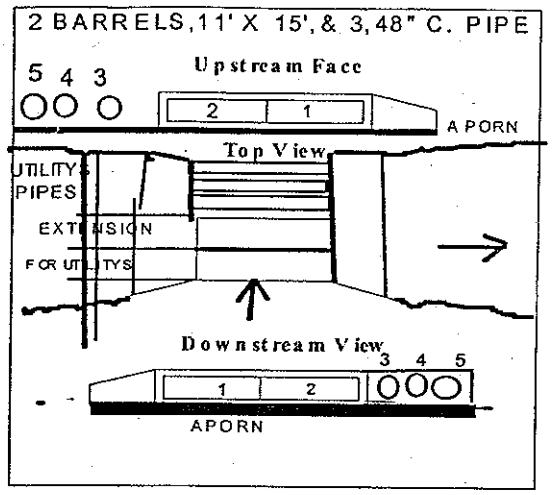
GEORGIA DEPARTMENT OF TRANSPORTATION

Culvert Waterway Report

District: 5
Bridge Inspector: Joe Cannon
Location ID: 051-04001M-005.99E
Structure ID: 051-0139-0

Inspection Date: 7/6/00
Over: CASEY CANAL
County: Chatham
Road Name: MONTGOMERY CROSSRD

Inspection Area: 05
Skew: 00



Location	UPSTREAM
Bridge Height	02.0
Water depth	08.0
Current	Moderate
Channel Soil Type	Silt
Scour Critical	8
Slope Prot	0
Diver	ZZZ

		Culvert Condition	6
Scour Condition	8	UnderWater Condition	N
Waterway Adequacy	8	Channel Protection	7

Comments:

TIDAL ZONE .2 BARRELS,11' X 15',& 3,48" CONCRETE PIPE.

BRIDGE INVENTORY DATA LISTING GEORGIA DEPARTMENT OF TRANSPORTATION

tructure ID: 051-0139-0 | Chatham | SUFF. RATING 91.20

Location & Geography

	Structure I.D.No:	051-0139-0
200	Bridge Information	07
6A	Feature Int:	CASEY CANAL
6B	Critical Bridge:	0
7A	Route Number Carried:	CR00302
7B	Facility Carried:	MONTGOMERY CROSSRD
9	Location:	1 MI E OF SR 204 (IN SAV)
2	DOT District:	5
207	Year Photo:	1998
91	Inspection Frequency:	24 Date: 07/06/2000
92A	Fract Crit Insp Freq:	00 Date: 02/01/1901
92B	Underwater Insp Freq:	00 Date: 02/01/1901
92C	Other Spc. Insp Freq:	00 Date: 02/01/1901
4	Place Code:	69000
5	Inventory Route (O/U):	1
	Type:	5
	Designation:	1
	Number:	04001
	Direction:	0
16	Latitude: 31-59.5	HMMS Pre
17	Longitude: 81-06.1	HMMS Suf MP:
98	Border Bridge:	000 %Shared: 00
99	ID Number:	000000000000000
100	STRAHNET:	0
12	Base Highway Network:	0
13A	LRS Inventory Route:	
13B	Sub Inventory Route:	
101	Parallel Structure:	L
102	Direction of Traffic:	1
264	Road Inventory Mile Post:	000.26
208	Inspection Area:	05 Initials: JEC
	Engineer's Initial:	

Location I.D. No.: 051-04001M-005.99E

*	104	Highway System:	0
*	26	Functional Classification:	14
*	204	Federal Route Type:	F No.: 1111S
	105	Federal Lands Highway:	
*	110	Truck Route:	0
	206	School Bus Route:	1
	217	Benchmark Elevation:	0000.00
	218	Datum:	0
*	19	Bypass Length:	01
*	20	Toll:	3
*	21	Maintenance:	02
*	22	Owner:	02
*	31	Design Load:	2
	37	Historical Significance:	5
	205	Congressional District:	01
	27	Year Constructed:	1930
	106	Year Reconstructed:	0000
	33	Bridge Median:	0
	34	Skew:	00
	35	Structred Flared:	0
	38	Navigation Control:	0
	213	Special Steel Design:	0
	267	Type of Paint:	0
*	42	Type of Service on:	5
		Under:	5
	214	Movable Bridge:	0
	203	Type Bridge:	Q
	259	Pile Encasement:	3
*	43	Structure Type Main:	1 19
	45	No. Spans Main:	002
	44	Structure Type Appr:	0 00
	46	No. Spans Appr:	0000
	226	Bridge Curve Horz:	0 Vert: 0
	111	Pier Protection:	0
	107	Deck Structure Type:	N
	108	Wearing Surface Type:	N
		Membrance:	N
		Protection:	N

Signs & Attachments

	225	Expansion Joint Type:	00
	242	Deck Drains:	0
	243	Parapet Location:	0
		Height:	0.00
		Width:	0.00
	238	Curb:	1.20 1
	239	Handrail:	0 0
*	240	Median Barrier Rail:	0
	241	Bridge Median Height:	0.00
		Width:	0.00
*	230	Guardrail Loc Dir Rear:	3
		Fwrd:	3
		Oppo Dir Rear:	0
		Fwrd:	0
	244	Approach Slab:	0
	224	Retaining Wall:	0
	233	Posted Speed Limit:	25
	236	Warning Sign:	0
	234	Delineator:	0
	235	Hazard Boards:	0
	237	Utilities Gas:	00
		Water:	00
		Electric:	00
		Telephone:	00
		Sewer:	31
	247	Lighting Street:	0
		Naviagtion:	0
		Aerial:	0
*	248	County Continuity No.:	00

BRIDGE INVENTORY DATA LISTING GEORGIA DEPARTMENT OF TRANSPORTATION

tructure ID: 051-0139-0 Chatham SUFF. RATING 91.20

Programming Data

201 Project No.: UNKNOWN
202 Plans Available: 0
249 Prop. Proj. No. BRST-219-1 (1)
250 Approval Status: 0000
251 P.I. No.: 533205-
252 Contract Date: 02/01/2006
260 Seismic No.: 00000
75 Type Work: 00 0
94 Bridge Imp. Cost: $ 0
95 Roadway Imp. Cost: $ 0
96 Total Imp Cost: $ 0
76 Imp. Length: 000000
97 Imp. Year: 1900
114 Future ADT: 024150 Year: 2019

Hydraulic Data

215 Waterway Data
Highwater Elev.: 0000.0 Year: 1900
Avg. Streambed Elev.: 0000.0 Freq.: 00
Drainage Area: 00000
Area Of Opening: 000000
113 Scour Critical: 8
216 Water Depth: 08.0 Br. Height: 02.0
222 Slope Protection: 0
221 Spur Dikes Rear: 0 Fwrd: 0
219 Fender System: 0
220 Dolphin: 0
223 Culvert Cover: 001
Type: 1
No. Barrels: 2
Width: 15.00 Height: 11.00
Length: 34 Apron: 3
* 265 U/W Insp. Area: 0 Diver: ZZZ

* Location I.D. No.: 051-04001M-005.99E

Measurements

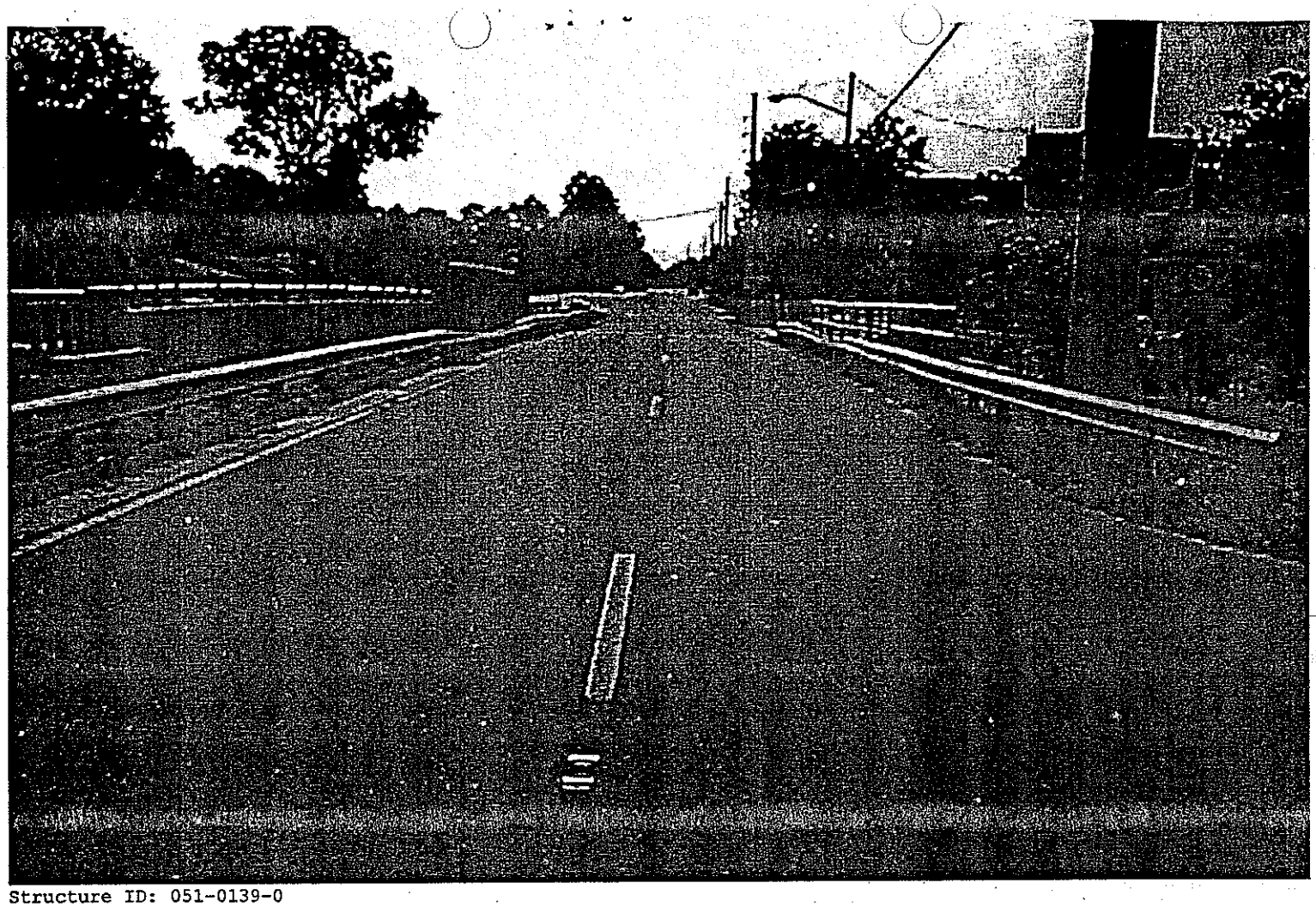
* 29 ADT: 016100 Year: 1999
109 % Trucks:
* 28 Lanes On: 02 Under: 00
210 No. Tracks On: 00 Under: 00
* 48 Max. Span Length: 0015
* 49 Structure Length: 52
51 Br. Rwdy. Width: 0.00
52 Deck Width: 0.00
* 47 Tot. Horz. Cl: 26.10
50 Curb/Sdewlk Width: 0.00/6.00
32 Approach Rdwy Width: 028
* 229 Shoulder Width:
Rear Lt: 2.00 Type: 5 Rt: 0.00
Fwrd Lt: 2.00 Type: 1 Rt: 2.00
Pavement Width:
Rear: 24.00 Type: 2
Fwrd: 24.00 Type: 2
Intersection Rear: 0 Fwrd: 1
36 Safety Features Br. Rail: 2
Transition: 2
App. G. Rail: 1
App. Rail End: 2
53 Minimum Cl.Over: 99 ' 99 "
Under: N 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: 0.00
Deck Thick Approach: 0.00
246 Overlay Thickness: 0.00
212 Year Last Painted: Sup: 0000 Sub: 0000

Ratings

65 Inventory Rating Method: 2
63 Inventory Rating Method: 2
66 Inventory Type: 2 Rating: 27
64 Operating Type: 2 Rating: 46
231 Calculated Loads
H-Modified: 00 0
HS-Modified: 00 0
Type 3: 00 0
Type 3s2: 00 0
Timber: 00 0
Piggyback: 00 0
261 H Inventory Rating: 15
262 H Operating Rating: 25
67 Structural Evaluation: 6
58 Deck Condition: N
59 Superstructure Condition: N
* 227 Collision Damage: 0
60A Substructure Condition: N
60B Scour Condition: 8
60C Underwater Condition: N
71 Waterway Adequacy: 8
61 Channel Protection Cond: 7
68 Deck Geometry: N
69 UnderClr. Horz/Vert: N
72 Appr. Alignment: 8
62 Culvert: 6

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
Type3s2: 00
Timber: 00
Piggyback: 00
253 Notification Date 03/15/1996
253 Fed Notify Date: 02/01/1901 0



Structure ID: 051-0139-0
Photo Date: 08/18/1998
Photo Type: Required Roadway
Comments: Looking north.

Structure ID: 051-0139-0
Photo Date: 08/18/1998
Photo Type: Required SideView
Comments: Photo taken at outlet end by barrel 1 on right side.

PROJECT CONCEPT TEAM MEETING MINUTES

Project Number:	BRST-219-1(1)
P.I. Number:	533205
Project Description:	CR 302/ Montgomery Cross Road @ Casey Canal 1 Mile East of SR 204
Date:	September 16, 2002 at 2:30 p.m.
Place:	Jesup District Office
Attendees:	Angela T. Alexander, GDOT Urban Design Darryl VanMeter, GDOT Urban Design Theresa Holder, GDOT Urban Design Cynthia Phillips, District 5 Traffic Operations James L. Brown, Area Engineer Allan Black, Chatham County Ginny Murphy, Bellsouth Beverly Hall, Bellsouth Jerome R. Sheffield, District 5 Construction Frank Sweat, Chatham County Teresa Scott, District 5 Planning and Programming Engineer Howell Clements, District 5 Utilities Stephen Thomas, GDOT Rob Mikell, Comcast Margie Blake-Pickett, Savannah Electric Wykoda Wang, Savannah MPC Mike Weiner, City of Savannah Billy Jones, City of Savannah Peter Shonka, City of Savannah Larry Graham, GDOT Right of Way Tony Collins, District 5 Preconstruction Engineer Matthew Fowler, GDOT Planning Holly Liles, GDOT Planning Andrew Aiello, GDOT Environmental

Minutes of Meeting:

Darryl VanMeter opened the meeting by giving a brief description of the project's location and Need and Purpose. The Need for the project is to facilitate the discharge of storm water from the Casey Canal which will help prevent flooding due to inadequate drainage. Theresa Holder provided a summary of key items contained in the concept report which included the functional classification; base year and design year traffic volumes; project limits; typical sections; right of way width; design speed, and grades.

After Mrs. Holder's presentation the floor was opened for questions or comments.

- **Local Government Representatives**
    1. State Representatives (None present)
    2. County – (No comments)
    3. City – Peter Shonka with the City of Savannah asked a question about the cross sectional area of the proposed bridge. Theresa Holder stated that the cross section will match the cross section of the Westbound Bridge.
- **Engineering Services** (Not represented)
- **Programming** (No comments)
- **Traffic Safety and Design** (No comments)
- **Environmental** - Andrew Aiello wanted to know why the culvert needed replacing. Mrs. Holder stated that it was being replaced due to insufficient size and the deteriorating condition of the structure.
- **Planning** (No comments)
- **District Office**
    1. Jerome Sheffield stated that based on field measurements, the existing median may not be wide enough to accommodate the proposed widening for the traffic shift.
- **Right of Way** (No comments)
- **Utilities**
    1. Electrical- Margie Blake-Pickett with Savannah Electric stated that a transmission pole is located approximately 80 feet from the edge of travel on the bridge.
    2. Phone- Ginny Murphy stated that Bellsouth has conduit located under bridge but was not sure if it was on the Westbound Bridge or the Eastbound Bridge Culvert.
    3. Cable (No comments)

Darryl VanMeter ended the meeting by thanking everyone for their participation.

Attachment # 6

Department of Transportation

State of Georgia
#2 Capitol Square, S.W.
Atlanta, Georgia 30334-1002

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

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

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

BILLY F. SHARP
TREASURER
(404) 656-5224

August 28, 2001

LOCAL GOVERNMENT PROJECT AGREEMENT

In consideration of the proposed improvements, the City of SAVANNAH agrees to provide or perform the following at no cost to the Georgia D.O.T. for project BRST-219-1(1) Chatham Co., PI # 533205-: BRIDGES CR 302/MONTGOMERY CROSS RD @ CASEY CANAL 1 MI E OF SR 204

[X] Provide all rights-of-way and/or easements needed for the construction of the project and remove existing structures or obstructions within the rights-of-way.

[X] Make all utility relocations, adjustments or betterments of publicly owned utilities that are in conflict with construction of this project. Reimburse Georgia D.O.T. for any damages paid to the contractor for delay of construction caused by a delay in relocating the publicly owned utilities.

[X] Relocate or adjust all privately owned utilities to clear construction of this project, including adjustments at railroad crossings if required.

[X] Furnish detours, local borrow and waste pits as needed.

[ ] We support this project but choose not to commit any funding, realizing this may delay the project until additional funding can be found.

This _____ *day of* _____, *20*_____

APPROVED _____

City/County Official

NOTICE OF LOCATION AND DESIGN APPROVAL

BRST-219-1(1), CHATHAM COUNTY
P.I. No. 533205

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 referenced project.

Date of Location and Design Approval DECEMBER 31, 2002.

This project is a bridge culvert replacement project located entirely in Chatham County. The bridge is located on C.R. 302/ Montgomery Cross Road over the Casey Canal, one mile east of S.R. 204.The total project length is approximately 0.22 miles.

The proposed construction will widen the existing Westbound Bridge over the Casey Canal to replace the existing Eastbound Bridge Culvert. The Westbound Bridge will be widened to accommodate two additional 12 foot lanes, a 20 foot raised median, and a six foot sidewalk in the eastbound direction. The approximate length of the bridge is 108 feet.

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

James Brown
james.brown@dot.state.ga.us
630 West Boundary Street
P.O. Box 1212
Savannah, GA 31402
912-651-2144

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

Joseph P. Palladi, P.E.
Office of Urban Design
Joseph.palladi@dot.state.ga.us
No. 2 Capitol Square, SW
Atlanta, Georgia 30334-1002
(404) 656-5436

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.

Attachment # 8

CITY OF SAVANNAH - Facilities Maintenance Bureau
P.O. Box 1027 • Savannah, Georgia 31402 • (912) 651-6575 • FAX (912)-651-6577

RECEIVED
OCT 2001
URBAN DESIGN

PALLADI
BUCHAN
ALEXANDER Darryl
OTHER
GROUPS
FILE BRST-219-1(1) Chatham
P.I. NO. 5332 05

September 25, 2001

Mr. Joseph P. Palladi, P.E.
State Urban Design Engineer
Department of Transportation
State of Georgia
#2 Capitol Square, S.W.
Atlanta, Georgia 30334-1002

Dear Mr. Palladi:

During our last phone conversation, it was mentioned that GaDOT did not have any numbers related to the required cross-sectional areas for the new Montgomery Cross Roads Eastbound Bridge. For GaDOT's usage, attached to this letter is information from the City's pump station consultant.

Please pass this information to the appropriate parties. If there are questions, please call me at (912) 651-6575.

Sincerely,

BILLY E. JONES
Facilities Maintenance Director

BEJ/fmd

Attachment

EMC ENGINEERING SERVICES, INC.
23 East Charlton Street (31401)
P.O. Box 8101
Savannah, Georgia 31412

Phone (912) 232-6533
Fax (912) 232-2920
E-Mail - civil@emc-eng.com

• Environmental
• Marine
• Civil

September 10, 2001

Mr. Roger Raines
City of Savannah Stormwater Management
Post Office Box 1027
Savannah, Georgia 31402

RE: **EASTBOUND TRAFFIC BRIDGE AT MONTGOMERY CROSSROADS**
CIP NO: DR-124-97
EMC PROJECT NO: 90-098.81

Dear Mr. Raines:

Per our telephone conversation today, our office has reviewed our in house data regarding the eastbound bridge at Montgomery Crossroads to determine how much cross sectional area would be required if the existing bridge was replaced with a new bridge. We believe that a new eastbound bridge should have the same cross sectional area under it as the existing westbound bridge as a minimum. The existing westbound bridge has a cross sectional area of approximately 964 ft^2. This area has been determined from the attached drawing between the (-) 1.1 and 11.00 elevations, a 64 ft. bottom width, and with 1.5:1 side slopes as shown on the drawing. By replacing the existing eastbound bridge with a new bridge similar to westbound bridge, the existing area will be increased by 290%, which would improve the hydraulics, slow down the velocity, and minimize the upstream elevation.

Please call if you have any questions or comments.

Sincerely,

Ben Lockhart, P.E.
Project Engineer

swj

cc Timothy D. Baumgartner, PE – EMC Engineering Services, Inc.

E:\90098\81\raines-0907.doc

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

Office of Urban Design

PROJECT CONCEPT REPORT

Project Number: BRST-219-1(1)

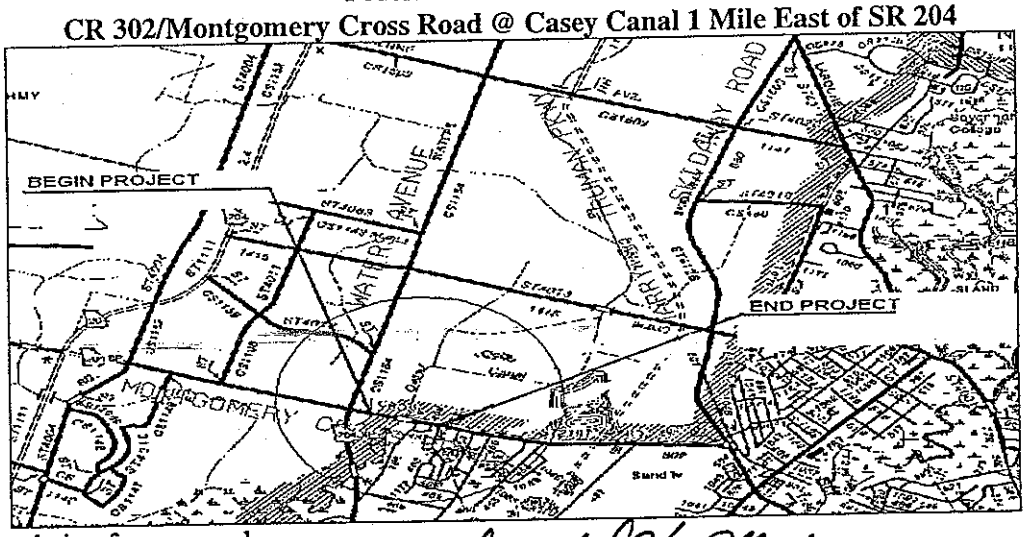
County: Chatham County

P. I. Number: 533205

State Route Number: N/A

Federal Route Number: N/A

CR 302/Montgomery Cross Road @ Casey Canal 1 Mile East of SR 204



Recommendation for approval:

DATE 10/25/02 Daryl O. Von Meter
Project Manager

DATE 11/1/02 Joseph P. Allen
State Urban Design Engineer

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

DATE _____ _____
State Transportation Planning Administrator

DATE _____ _____
State Financial Management Administrator

DATE 12/02/02 _____
State Environmental/Location Engineer

DATE _____ _____
State Traffic Safety and Design Engineer

DATE _____ _____
District Engineer

DATE _____ _____
Project Review Engineer

DATE _____ _____
State Structural and Bridge Design Engineer