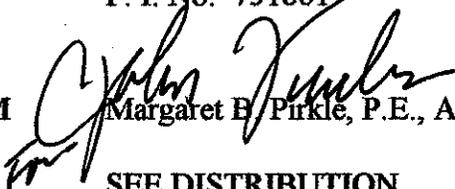


D.O.T. 66

**DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA**

**INTERDEPARTMENT CORRESPONDENCE**

**FILE** BRST-021-1(42) Fulton County **OFFICE** Preconstruction  
P. I. No. 731861  
**DATE** August 19, 2003  
**FROM**  Margaret B. Pirkle, P.E., Assistant Director of Preconstruction  
**TO** SEE DISTRIBUTION

**SUBJECT PROJECT CONCEPT REPORT APPROVAL**

Attached for your files is the approval for subject project.

MBP/cj

Attachment

**DISTRIBUTION:**

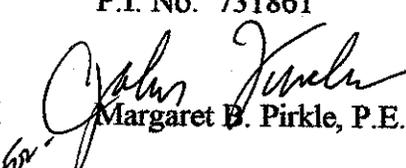
David Mulling  
Harvey Keeper  
Jerry Hobbs  
Percy Middlebrooks  
Michael Henry  
Phillip Allen  
Joe Palladi (file copy)  
Paul Liles  
Brent Story  
Buddy Gratton  
BOARD MEMBER

**DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA**

**INTERDEPARTMENT CORRESPONDENCE**

**FILE** BRST-021-1(42) Fulton County **OFFICE** Preconstruction  
P.I. No. 731861

**DATE** August 5, 2003

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

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

**SUBJECT PROJECT CONCEPT REPORT**

This project is the replacement of a structurally deficient bridge on SR 70/Fulton Industrial Boulevard over Camp Creek, 7.9 miles north of Fairburn, Georgia. The existing bridge, constructed in 1941, is load limited with a sufficiency rating of 64. The original design load capacity is H-15. In accordance with DOT MOG 2405-1, the existing bridge meets the established criteria for replacement. State Route 70 at this location is a rural two lane roadway with 12' travel lanes with rural shoulders. This section of SR 70 is functionally classified as a rural minor arterial. Traffic is projected to be 5,600 VPD and 7,700 VPD in the years 2005 and 2025 respectively. The posted speed and the design speed are 55 MPH.

The construction proposes to construct a new 300' x 44' concrete bridge over Camp Creek at the existing bridge site. The approaches will consist of two, 12' lanes with 10' shoulders (2' paved). Traffic will be maintained during construction utilizing an on-site detour.

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

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

The estimated costs for this project are:

	<u>PROPOSED</u>	<u>APPROVED</u>	<u>PROG DATE</u>	<u>LET DATE</u>
Construction (includes E&C and inflation)	BR \$1,077,000 STP \$1,867,000	\$1,077,000 \$1,867,000	2006	2006
Right-of-Way	\$31,000	\$13,000		
Utilities*	LGPA	LGPA		

\*Fulton County signed LGPA on 12-20-00 for utilities.

Frank L. Danchetz

Page 2

BRST-021-1(42) Fulton

August 5, 2003

I recommend this project concept be approved.

MBP:JDQ/cj

Attachment

CONCUR

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

APPROVE

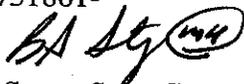
  
Paul V. Mullins, P.E., Chief Engineer

**DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

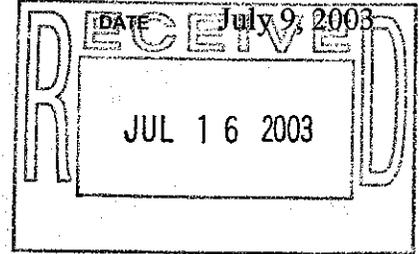
FILE **BRST-021-1(42) Fulton County**  
SR 70/Fulton Ind Blvd over Camp Creek 7.9 mi N of Fairburn  
P.I. No. 731861-

OFFICE Atlanta

FROM   
Brent A. Story, State Consultant Design Engineer

TO Margaret B. Pirkle, Assistant Director of Preconstruction

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).

**Note: Because the existing bridge sufficiency rating exceeds 50, this project will require split funding.**

Those on the distribution list below should review the Concept Report and send comments and/or the signature page to the Preconstruction Office within 10 days as per the PDP.

If you have any questions or require further information please call (404)463-6135 or Dan Bodycomb of Transportation Systems Design, Inc. at (770) 396-4877.

*Distribution:*

- David Mulling, Project Review Engineer
- Harvey Keeper, State Environmental/Location Engineer
- Phillip Allen, State Traffic Safety and Design Engineer
- Joe Palladi, State Transportation Planning Administrator
- Percy Middlebrooks, Office of Financial Management Administrator
- Buddy Gratton, District Engineer – Chamblee
- Paul Liles, State Bridge & Structural Engineer

BAS:MAH:EJC

cc: Transportation Systems Design, Inc.

DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA  
OFFICE OF CONSULTANT DESIGN

PROJECT CONCEPT REPORT

Project Number: BRST-021-1(42)  
County: Fulton  
P.I. Number: 731861

Federal Route Number: N/A  
State Route Number: 70

Recommendation for approval:

DATE 7-3-03



Project Manager

DATE 7-15-03



State Consultant/Design Engineer

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

DATE \_\_\_\_\_

State Transportation Planning Administrator

DATE \_\_\_\_\_

Financial Management

DATE \_\_\_\_\_

State Environmental / Location Engineer

DATE \_\_\_\_\_

State Traffic Safety and Design Engineer

DATE \_\_\_\_\_

District Engineer

DATE \_\_\_\_\_

Project Review Engineer

DATE \_\_\_\_\_

State Bridge & Structural Design Engineer



Scale: 1 inch = 1 mile

## Location Map

**Project:** BRST-021-1(42) Fulton County PI No.: 731861-  
**Description:** SR 70/Fulton Ind Blvd over Camp Creek 7.9 mi N of Fairburn

## PROJECT CONCEPT REPORT

**Description of the proposed project:** *The proposed project would consist of replacing the existing bridge and approaches on SR 70/Fulton Industrial Blvd over Camp Creek 7.9 mi north of Fairburn. The existing 2 lane bridge is 228 feet long and 26.1 feet wide and has 6 spans, each 38 feet in length. The proposed bridge will be 44 feet wide, consisting of two 12-foot lanes and two 10-foot shoulders. The proposed bridge is expected to be approximately 300 feet in length and have 6 spans, each approximately 50 feet long. The existing approach roadway has 2 lanes with rural shoulders on an existing right-of-way of 150 feet. The proposed approaches would consist of two 12-foot lanes and two 10-foot shoulders, 2 feet of which will be paved. An onsite detour will be constructed to accommodate traffic during construction. Additional right-of-way acquisition on both sides of the road is anticipated. The total length of bridge and approaches is approximately 2125 feet (0.40 miles).*

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

PDP Classification: Major  Minor

PDP Designation: Full Oversight (  ), Exempt (  ), State Funded (  ), or Other (  )

Functional Classification: *Rural Minor Arterial*

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

State Route Number(s): 70

Traffic (AADT):

Current Year: (2007) 5,600

Design Year: (2027) 7,700

Existing design features:

- Typical Section: Two, 12' Lanes with grassed shoulders and ditches
- Posted Speed: 55 mph Maximum degree of curvature: N/A
- Maximum grade: 6.00% Mainline
- Width of right of way: 150'
- Major structures:
  - 26.1' x 228' bridge over Camp Creek.
  - Structure ID: 121-0061-0 Sufficiency rating: 64.10
- Major interchanges or intersections along the project: N/A
- Existing length of roadway segment: 0.40 miles
- Road inventory mile post: 017.58

**Proposed Design Features:**

- Proposed typical section(s): *The proposed roadway will consist of two 12' lanes with 2' paved shoulder and 8' grassed shoulders with side slopes*
- Proposed Design Speed Mainline: 60 mph
- Proposed Maximum grade Mainline: 6.2%                      Maximum grade allowable: 7.0%
- Proposed Maximum grade Side Street: N/A                      Maximum grade allowable: N/A
- Proposed Maximum grade driveway: 10%                      Maximum grade allowable: 15%
- Proposed Maximum degree of curve: 1°00'00"                      Maximum degree allowable: 5°15'00"
- Right of Way
  - Width: Varies from existing to 220'
  - Easements: Temporary( ), Permanent(**X**), Utility( ), Other( ).
  - Type of access control: Full( ), Partial( ), By Permit(**X**), Other( ).
  - Number of parcels: 5                      Number of displacements:
    - Business: 0
    - Residences: 0
    - Mobile Homes: 0
    - Other: 0
- Structures:
  - Bridges: *The proposed bridge will be approximately 300' long and 44' wide.*
  - Retaining Walls: *None*
- Major intersections and interchanges: N/A
- Traffic control during construction: *On site detour will be constructed to the northwest of the existing bridge.*
- Design Exceptions to controlling criteria anticipated:

	<u>UNDETERMINED</u>	<u>YES</u>	<u>NO</u>
HORIZ 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: *None*
- Environmental Concerns: *Environmental study under way*
- Level of Environmental Analysis:
  - Are Time Saving Procedures Appropriate? Yes (X), No ( )
  - Categorical Exclusion Anticipated? Yes (X), No ( )
  - Environmental Assessment/Finding of No Significant Impact: Yes ( ), No (X)
  - Environmental Impact Statement (EIS): Yes ( ), No (X)
- Utility Involvements:
  - Telephone: *Owner to be determined*
  - Power: *Owner to be determined*
  - Water/Sewer: *Owner to be determined*
  - Cable TV: *Owner to be determined*

**Project Responsibilities:**

- Design: *Transportation Systems Design, Inc. (TSD)*
- Right of way acquisition: *GDOT*
- Relocation of utilities: *Fulton County is responsible for reimbursable utilities. LGPA signed 12-20-00.*
- Letting to contract: *GDOT*
- Supervision of construction: *GDOT*
- Providing material pits: *Contractor*
- Providing detours: *TSD, Inc. provides detour plan, Contractor to construct it*

**Coordination:**

- Concept Meeting date(Minutes Attached): April 21, 2003
- P.A.R. meetings, dates, and results: *None anticipated*
- FEMA, USCG and/or TVA: *None anticipated*
- Public involvement: *None anticipated*
- Local government comments:
- Other projects in the area: *None*
- Other coordination to date: *None*

**Scheduling – Responsible Parties’ Estimate**

Time to complete the environmental process:	<u>9</u> Months
Time to complete preliminary construction plans:	<u>4</u> Months
Time to complete right of way plans:	<u>2</u> Months
Time to complete the section 404 permit:	<u>3</u> Months
Time to complete final construction plans:	<u>3</u> Months
Time to complete the purchase right-of-way:	<u>9</u> Months
Other major items that will affect project schedule:	None

**Alternates considered:**

**Alternate 1** – *Replace the existing bridge on existing location and construct a temporary onsite detour to the northwest/downstream side of the proposed bridge to handle traffic during construction.*

**Alternate 2** - *Replace the existing bridge on existing location and construct a temporary onsite detour to the southwest/upstream side of the proposed bridge to handle traffic during construction.*

**Alternate 3** – *Permanently realign SR 70.*

**Alternate 4** – *Replace the bridge on existing location and provide an offsite detour.*

**Alternate 5** – *Rehabilitate the existing bridge.*

**Alternate 6** – *No build.*

**Comments:** *It is recommended that we construct Alternate 1. This alternate creates the least impacts to adjacent properties, the least environmental impacts, and it provides a smooth geometric alignment. The construction of alternate 2 was not chosen because the detour bridge will be designed for a 10-year storm and there is a risk of the detour bridge washing out and destroying the proposed bridge if a larger storm event occurs. Alternate 3 was not chosen because it would introduce unnecessary compound curves and create an undesirable roadway alignment. This situation would not serve driver expectancy and might increase the accident rate in the area. Alternate 4 was not chosen because a reasonable detour does not exist. Alternate 5 and 6 are not acceptable options as the bridge is narrow, has high daily traffic volumes, and is classified as functionally obsolete and requires replacement.*

Project Concept Report Page 7  
Project Number: BRST-021-1(42)  
P.I. Number: 731861  
County: Fulton

**Attachments:**

1. Need and Purpose
2. Cost Estimates:
  - a. Construction including E&C
  - b. Right of Way, and
  - c. Utilities.
3. Cost Estimate for "Widening Only" Condition
4. Sketch location map (in body of report),
5. Typical sections,
6. Bridge Inventory
7. Concept Meeting Minutes
8. Location and Design Notice
9. Preliminary Pavement Design (Included on Typical Sections)
10. Traffic Counts
11. Memo Regarding Bridge Replacement with Sufficiency Rating > 50

## **NEED AND PURPOSE**

### **PROJECT BRST-021-1(42), FULTON COUNTY**

**PI No. 731861**

### **BRIDGE REPLACEMENT**

This bridge was built in 1941 and consists of concrete bents, concrete T- beam superstructure, and a concrete deck. The original design load capacity is H-15. The sufficiency rating on the structure is 64.1, and the bridge is classified as Functionally Obsolete and requires widening. However, in accordance with DOT policy 2405-1, we recommend that this bridge be replaced though due to unacceptable load capacity. Due to this criteria no additional cost analysis or coring by the lab will be required. This bridge does not currently qualify for federal replacement BR funding but does qualify for federal bridge widening funds, which can be used toward replacement up to the estimated cost of widening. The remaining funds would have to come from another funding source.

**PRELIMINARY COST ESTIMATE**

PROJECT NUMBER: BRST-021-1(42), PI 731861

COUNTY: Fulton

DATE: February, 2003

ESTIMATED LETTING DATE: 2005

PREPARED BY: MSP

PROJECT LENGTH:

( ) PROGRAMMING PROCESS (X) CONCEPT DEVELOPMENT ( ) DURING PROJECT DEV.

PROJECT COST		
<b>A. RIGHT-OF-WAY:</b>		
1. PROPERTY (LAND & EASEMENT @ \$0.10/SF) 2.61 AC, \$20,000		\$ 20,000
2. DISPLACEMENTS; RES: 0, BUS: 0, M.H.: 0		\$
3. OTHER COST (ADM./COST, INFLATION)		\$ 11,000
NUMBER OF YEARS	1	
	SUBTOTAL: A	\$ 31,000
<b>B. REIMBURSABLE UTILITIES:</b>		
1. RAILROAD		\$
2. TRANSMISSION LINES		\$
3. SERVICES (15 utility poles)		\$
	SUBTOTAL: B	\$ -
<b>C. CONSTRUCTION:</b>		
<b>1. MAJOR STRUCTURES</b>		
a. BRIDGES (300' X 47.25' X \$75)	14175 SF @ \$75	1,063,125
		\$ 1,063,125
		\$
	SUBTOTAL: C-1.a	\$ 1,063,125
b. OTHER		\$ -
		\$
	SUBTOTAL: C-1	\$ 1,063,125
<b>2. GRADING AND DRAINAGE:</b>		
<b>a. EARTHWORK (Mainline)</b>		
Borrow	38628 CY @ \$7.5	\$ 289,710
Excavation	6662 CY @ \$7.5	49,965
	SUBTOTAL: C-2a	\$ 339,675
<b>b. EARTHWORK (Detour)</b>		
Borrow	34120 CY @ \$	\$ 255,900
Excavation	12950 CY @ \$	97,125
	SUBTOTAL: C-2b	\$ 353,025

c.. DRAINAGE			
1) Side Drain Pipe	135 LF @ \$27	\$	3,645
2) Storm drain pipe	LF @ \$44	\$	-
3) Longitudinal System (incl. catch basins)	LF @ \$0	\$	-
4) Flared End Sections	10 EA @ \$318	\$	3,180
5) Perforated Underdrain	LF @ \$6	\$	-
6) Temporary Pipe Slope Drain	770 LF @ \$10	\$	7,700
	SUBTOTAL: C-2.c	\$	14,525
	SUBTOTAL: C-2	\$	707,225
3. BASE AND PAVING:			
a. AGGREGATE BASE CRS	3006 TN @ \$13	\$	39,078
b. ASPHALT PAVING (Mainline & Cross-Roads):			
19 mm Superpave	637 Tons @ \$37	\$	23,569
25 mm Superpave	1470 Tons @ \$33	\$	48,510
9.5 mm Superpave	391 Tons @ \$37	\$	14,467
Tack Coat	561 Gallons @ \$1	\$	561
	SUBTOTAL: C-3.b	\$	87,107
c. ASPHALT PAVING (Onsite detour):			
19 mm Superpave	503 Tons @ \$37	\$	18,611
25 mm Superpave	1508 Tons @ \$33	\$	49,764
9.5 mm Superpave	309 Tons @ \$37	\$	11,433
Tack Coat	480 Gallons @ \$1	\$	480
d. AGGREGATE BASE CRS	3084 TN @ \$13	\$	40,092
	SUBTOTAL: C-3.c	\$	120,380
e. OTHER (Leveling, Milling, etc.)			\$ 1000
f. AGGREGATE SURFACE COURSE	Tons @ \$19	\$	-
	SUBTOTAL: C-3	\$	247,565

4. EROSION CONTROL (Mainline)				
a. SILT FENCE				
1. TYPE A	3920 LF @ \$3.5	\$	13,720	
2. TYPE B	LF @ \$2.6	\$	-	
3. TYPE C	1600 LF @ \$5.3	\$	8,480	
				\$
b. RIP RAP	300 SF @ \$30	\$	9,000	
c. PLASTIC FILTER FABRIC	300 SF @ \$5.8	\$	1,740	
d. PERMANENT SOIL REINFORCING MAT	2500 SY @ \$5	\$	12,500	
e. MULCH	121 TN @ \$433		52,393	
f. PERMANENT GRASS	263 LB @ \$42		11,046	
h. TEMPORARY GRASS	132 LB @ \$33		4,356	
SUBTOTAL: C-4a			\$	113,235
EROSION CONTROL (Detour)				
e. SILT FENCE				
1. TYPE A	3430 LF @ \$3.5	\$	12,005	
2. TYPE B	LF @ \$2.6	\$	-	
3. TYPE C	1600 LF @ \$5.3	\$	8,480	
				\$
f. RIP RAP	300 SF @ \$30	\$	9,000	
g. PLASTIC FILTER FABRIC	300 SF @ \$5.8	\$	1,740	
h. PERMANENT SOIL REINFORCING MAT	SY @ \$5	\$	-	
SUBTOTAL: C-4b				51,710
SUBTOTAL: C-4			\$	164,945
5 TRAFFIC CONTROL				\$
CLEARING & GRUBBING				10000
SUBTOTAL: C-5			\$	30,000
6. MISCELLANEOUS:				
a. LIGHTING				\$
b. SIGNING - MARKING				\$
c. GUARDRAIL				
W Beam	1620 LF @ \$12	\$	19,440	
T Beam	120 LF @ \$40	\$	4,800	
Anchors	TYPE 12	2 ea @ \$1600	\$	3,200
	TYPE 6	4 ea @ 350	\$	1,400
	TYPE 1	2 ea @ \$450	\$	900
SUBTOTAL: C-6.c			\$	29,740
d. SIDEWALK				\$
e. MEDIAN / SIDE BARRIER				\$
f. APPROACH SLABS	293 SY @ \$90	\$	26,370	
g. REMOVAL				
Bridges				\$
SUBTOTAL: C-6.g			\$	20,000
h. Detour bridge (24' x 220')	5280 SF @ \$21	\$	110,880	
SUBTOTAL: C-6			\$	188,990
7. SPECIAL FEATURES				
SUBTOTAL: C-7			\$	-

<b>SUMMARY</b>	
<b>A. RIGHT-OF-WAY</b>	\$ 31,000
<b>B. REIMBURSABLE UTILITIES</b>	\$ -
<b>C. CONSTRUCTION</b>	
<b>1. MAJOR STRUCTURES</b>	\$ 1,063,125
<b>2. GRADING AND DRAINAGE</b>	\$ 707,225
<b>3. BASE AND PAVING</b>	\$ 247,565
<b>4. EROSION CONTROL</b>	\$ 164,945
<b>5. LUMP ITEMS</b>	\$ 30,000
<b>6. MISCELLANEOUS</b>	\$ 188,990
<b>7. SPECIAL FEATURES</b>	\$ -
<b>SUBTOTAL CONSTRUCTION COST</b>	\$ 2,401,850
<b>INFLATION (5% PER YEAR)</b>	\$ 246,190
NUMBER OF YEARS	2
<b>E. &amp; C. (10%)</b>	\$ 264,804
<b>TOTAL CONSTRUCTION COST</b>	\$ 2,912,844
<b>**DETOUR COST (for information only)**</b>	\$ 636,995
<b>GRAND TOTAL PROJECT COST</b>	\$ 2,943,844

**PRELIMINARY COST ESTIMATE -- BRIDGE WIDENING ONLY**

(This estimate for funding purposes only.)

PROJECT NUMBER: BRST-021-1(42)

COUNTY: Fulton

DATE: February, 2002

ESTIMATED LETTING DATE: 2005

PREPARED BY: MSP

PROJECT LENGTH: 0.40

( ) PROGRAMMING PROCESS (X) CONCEPT DEVELOPMENT ( ) DURING PROJECT DEV.

PROJECT COST			
<b>A. RIGHT-OF-WAY:</b>			
1. PROPERTY (LAND & EASEMENT) 16000 SF @ \$0.10/SF, 0.37 AC, MIN \$2000		\$	2000
2. DISPLACEMENTS; RES: 0, BUS: 0, M.H.: 0		\$	
3. OTHER COST (ADM./COST, INFLATION)		\$	10,100
NUMBER OF YEARS	1		
	SUBTOTAL: A		\$ 12,100
<b>B. REIMBURSABLE UTILITIES:</b>			
1. RAILROAD		\$	
2. TRANSMISSION LINES		\$	
3. SERVICES (4 utility poles)		\$	
	SUBTOTAL: B		\$ -
<b>C. CONSTRUCTION:</b>			
<b>1. MAJOR STRUCTURES</b>			
a. WIDEN BRIDGE FROM 24' TO 47.25' (LENGTH 220')	5115 SF @ \$150		767,250
		\$	
		\$	
	SUBTOTAL: C-1.a		\$ 767,250
b. OTHER		\$	-
		\$	
	SUBTOTAL: C-1		\$ 767,250
<b>2. GRADING AND DRAINAGE:</b>			
<b>a. EARTHWORK (Mainline)</b>			
Borrow (Appr. only for shldr imprvmnts)	1000 CY @ \$7.5	\$	7,500
Excavation	CY @ \$7.5		-
	SUBTOTAL: C-2a		\$ 7,500
<b>b. EARTHWORK (Detour)</b>			
Borrow	CY @ \$	\$	-
Excavation	CY @ \$		-
	SUBTOTAL: C-2b		\$ -

c.. DRAINAGE			
1) Side Drain Pipe	LF @ \$27	\$	-
2) Storm drain pipe	LF @ \$44	\$	-
3) Longitudinal System (incl. catch basins)	LF @ \$0	\$	-
4) Flared End Sections	EA @ \$318	\$	-
5) Perforated Underdrain	LF @ \$6	\$	-
6) Temporary Pipe Slope Drain	100 LF @ \$10	\$	1,000
	SUBTOTAL: C-2.c	\$	1,000
	SUBTOTAL: C-2	\$	8,500
3. BASE AND PAVING:			
a. AGGREGATE BASE CRS	100 TN @ \$13	\$	1,300
b. ASPHALT PAVING (Approach Shoulders only, at bridge):			
19 mm Superpave	17 Tons @ \$37	\$	629
25 mm Superpave	50 Tons @ \$33	\$	1,650
9.5 mm Superpave	11 Tons @ \$37	\$	407
Tack Coat	6 Gallons @ \$1	\$	6
	SUBTOTAL: C-3.b	\$	2,692
c. ASPHALT PAVING (Onsite detour):			
19 mm Superpave	Tons @ \$37	\$	-
25 mm Superpave	Tons @ \$33	\$	-
9.5 mm Superpave	Tons @ \$37	\$	-
Tack Coat	Gallons @ \$1	\$	-
d. AGGREGATE BASE CRS	TN @ \$13	\$	-
	SUBTOTAL: C-3.c	\$	-
e. OTHER (Leveling, Milling, etc.)			
		\$	1000
f. AGGREGATE SURFACE COURSE	Tons @ \$19	\$	-
	SUBTOTAL: C-3	\$	4,992

4. EROSION CONTROL (Mainline)			
a. SILT FENCE			
1. TYPE A		LF @ \$3.5	\$ -
2. TYPE B		LF @ \$2.6	\$ -
3. TYPE C	800	LF @ \$5.3	\$ 4,240
b. RIP RAP			
		SF @ \$30	\$ -
c. PLASTIC FILTER FABRIC			
		SF @ \$5.8	\$ -
d. PERMANENT SOIL REINFORCING MAT			
	400	SY @ \$5	\$ 2,000
e. MULCH			
	11	TN @ \$433	\$ 4,763
f. PERMANENT GRASS			
	55	LB @ \$42	\$ 2,310
h. TEMPORARY GRASS			
	28	LB @ \$33	\$ 924
SUBTOTAL: C-4a			\$ 14,237
EROSION CONTROL (Detour)			
e. SILT FENCE			
1. TYPE A		LF @ \$3.5	\$ -
2. TYPE B		LF @ \$2.6	\$ -
3. TYPE C		LF @ \$5.3	\$ -
f. RIP RAP			
		SF @ \$30	\$ -
g. PLASTIC FILTER FABRIC			
		SF @ \$5.8	\$ -
h. PERMANENT SOIL REINFORCING MAT			
		SY @ \$5	\$ -
SUBTOTAL: C-4b			\$ -
SUBTOTAL: C-4			\$ 14,237
5 TRAFFIC CONTROL			
CLEARING & GRUBBING			\$ 30,000
			10,000
SUBTOTAL: C-5			\$ 40,000
6. MISCELLANEOUS:			
a. LIGHTING			
			\$ 1,000
b. SIGNING - MARKING			
c. GUARDRAIL			
W Beam	120	LF @ \$12	\$ 1,440
T Beam	120	LF @ \$40	\$ 4,800
Anchors	TYPE 12	2 ea @ \$1600	\$ 3,200
	TYPE 1	2 ea @ \$450	\$ 900
SUBTOTAL: C-6.c			\$ 10,340
d. SIDEWALK			
			\$ 5,000
e. MEDIAN / SIDE BARRIER			
f. APPROACH SLABS (Mainline Only)			\$ 26,370
	293	SY @ \$90	
g. REMOVAL			
Bridges			
SUBTOTAL: C-6.g			\$ -
h. Detour bridge			\$ -
		SF @ \$21	
SUBTOTAL: C-6			\$ 42,710
7. SPECIAL FEATURES			
SUBTOTAL: C-7			\$ -

<b>SUMMARY</b>	
A. RIGHT-OF-WAY	\$ 12,100
B. REIMBURSABLE UTILITIES	\$ -
C. CONSTRUCTION	
1. MAJOR STRUCTURES	\$ 767,250
2. GRADING AND DRAINAGE	\$ 8,500
3. BASE AND PAVING	\$ 4,992
4. EROSION CONTROL	\$ 14,237
5. LUMP ITEMS	\$ 40,000
6. MISCELLANEOUS	\$ 42,710
7. SPECIAL FEATURES	\$ -
SUBTOTAL CONSTRUCTION COST	\$ 877,689
INFLATION (5% PER YEAR)	\$ 89,963
NUMBER OF YEARS	2
E. & C. (10%)	\$ 96,765
TOTAL CONSTRUCTION COST	\$ 1,064,417
**DETOUR COST (for information only)**	\$ -
<b>GRAND TOTAL PROJECT COST</b>	<b>\$ 1,076,517</b>



# BRIDGE INVENTORY DATA LISTING GEORGIA DEPARTMENT OF TRANSPORTATION

Structure ID: 121-0061-0

Fulton Area 9

SUFF. RATING

64.10

## Location & Geography

\* Structure I.D.No: 121-0061-0  
 \* 200 Bridge Information 07  
 \* 6A Feature Int: CAMP CREEK  
 \* 6B Critical Bridge: 0  
 \* 7A Route Number Carried: SR00070  
 \* 7B Facility Carried: FULTON IND. BLVD.  
 \* 9 Location: 7.9 MIN OF FAIRBURN  
 2 DOT District: 7  
 207 Year Photo: 1999  
 \* 91 Inspection Frequency: 24 Date: 02/21/2001  
 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: 00000  
 \* 5 Inventory Route (O/U): 1  
 Type: 3  
 Designation: 1  
 Number: 00070  
 Direction: 0  
 \* 16 Latitude: 33-40.5 MMS Prefix: SR  
 \* 17 Longitude: 84-37.8 MMS Suffix: 00 MP: 17.83  
 98 Border Bridge: 000 %Shared: 00  
 99 ID Number: 0000000000000000  
 \* 100 STRAHNET: 0  
 12 Base Highway Network: 0  
 13A LRS Inventory Route:  
 13B Sub Inventory Route:  
 \* 101 Parallel Structure: N  
 \* 102 Direction of Traffic: 2  
 \* 264 Road Inventory Mile Post: 017.58  
 \* 208 Inspection Area: 09 Initials: DAS  
 Engineer's Initial:  
 \* Location I.D. No.: 121-00070D-017.83N

## Signs & Attachments

\* 104 Highway System: 0  
 \* 26 Functional Classification: 14  
 \* 204 Federal Route Type: F No.: 021-1  
 \* 105 Federal Lands Highway:  
 \* 110 Truck Route: 0  
 206 School Bus Route: 1  
 217 Benchmark Elevation: 00000.00  
 218 Datum: 0  
 \* 19 Bypass Length: 02  
 \* 20 Toll: 3  
 \* 21 Maintenance: 01  
 \* 22 Owner: 01  
 \* 31 Design Load: 2  
 37 Historical Significance: 5  
 205 Congressional District: 05  
 27 Year Constructed: 1941  
 106 Year Reconstructed: 0000  
 33 Bridge Median: 0  
 34 Skew: 45  
 35 Structure Flared: 0  
 38 Navigation Control: 0  
 213 Special Steel Design: 0  
 267 Type of Paint: 0  
 \* 42 Type of Service on: 1  
 Under: 5  
 214 Movable Bridge:  
 203 Type Bridge: O-O-O-O  
 259 Pile Encasement: 3  
 \* 43 Structure Type Main: 1 04  
 45 No. Spans Main: 006  
 44 Structure Type Appr: 0 00  
 46 No. Spans Appr: 0000  
 226 Bridge Curve Horz: 0 Vert: 0  
 111 Pier Protection: 0  
 107 Deck Structure Type: 1  
 108 Wearing Surface Type: 6  
 Membrane: 8  
 Protection: 8

225 Expansion Joint Type: 02  
 242 Deck Drains: 1  
 243 Parapet Location: 0  
 Height: 0.00  
 Width: 0.00  
 238 Curb: 0.80 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  
 Fwrd: 3  
 Oppo Dir Rear: 0  
 Fwrd: 0  
 244 Approach Slab: 0  
 224 Retaining Wall: 0  
 233 Posted Speed Limit: 55  
 236 Warning Sign: 1  
 234 Delineator: 1  
 235 Hazard Boards: 1  
 237 Utilities Gas: 00  
 Water: 00  
 Electric: 00  
 Telephone: 00  
 Sewer: 00  
 247 Lighting Street: 0  
 Navigation: 0  
 Aerial: 0  
 \* 248 County Continuity No.: 00

# BRIDGE INVENTORY DATA LISTING GEORGIA DEPARTMENT OF TRANSPORTATION

Structure ID: 121-0061-0

Fulton Area 9

SUFF. RATING

64.10

## Programming Data

201 Project No.: WPA-1682  
 202 Plans Available: 1  
 249 Prop. Proj. No. BRST-021-1 (42)  
 250 Approval Status: 0000  
 251 P.I. No.: 731861-  
 252 Contract Date: 02/01/2005  
 260 Seismic No.: 00000  
 75 Type Work: 34 1  
 94 Bridge Imp. Cost: \$ 306  
 95 Roadway Imp. Cost: \$ 61  
 96 Total Imp Cost: \$ 483  
 76 Imp. Length: 000451  
 97 Imp. Year: 1990  
 114 Future ADT: 7923 Year: 2019

## Measurements

\* 29 ADT: 005282 Year: 1999  
 109 % Trucks: 12  
 \* 28 Lanes On: 02 Under: 00  
 210 No. Tracks On: 00 Under: 00  
 \* 48 Max. Span Length: 0038  
 \* 49 Structure Length: 228  
 51 Br. Rwdy. Width: 24.00  
 52 Deck Width: 26.10  
 \* 47 Tot. Horiz. Cl: 24.00  
 50 Curb/Sdewlk Width: 0.50/0.50  
 32 Approach Rdwy Width: 024  
 \* 229 Shoulder Width:  
 Rear Lt: 4.00 Type: 8 Rt: 4.00  
 Fwd Lt: 4.00 Type: 8 Rt: 4.00  
 Pavement Width:  
 Rear: 24.00 Type: 2  
 Fwd: 24.00 Type: 2  
 Intersection Rear: 0 Fwd: 0  
 36 Safety Features Br. Rail:  
 Transition:  
 App. G. Rail: 1  
 App. Rail End: 1  
 53 Minimum Cl. Over:  
 Under: N  
 99' 99" 99' 99"  
 00' 00" 00' 00"  
 \* 228 Min. Vertical Cl  
 Act. Odm Dir: 99' 99"  
 Opp. Dir: 99' 99"  
 Posted Odm. Dir: 00' 00"  
 Opp. Dir: 00' 00"  
 55 Lateral Underel. Rt: N 99.90  
 56 Lateral Underel. Lt: 0.00  
 \* 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: 7.50  
 Deck Thick Approach: 0.00  
 246 Overlay Thickness: 4.00  
 212 Year Last Painted: Sup: 0000 Sub: 0000

## Ratings

65 Inventory Rating Method: 2  
 63 Inventory Rating Method: 2  
 66 Inventory Type: 2 Rating: 22  
 64 Operating Type: 2 Rating: 38  
 231 Calculated Loads  
 H-Modified: 20 0  
 HS-Modified: 25 0  
 Type 3: 28 0  
 Type 3s2: 40 0  
 Timber: 36 0  
 Piggyback: 40 0  
 261 H Inventory Rating: 15  
 262 H Operating Rating: 21  
 67 Structural Evaluation: 5  
 58 Deck Condition: 7  
 59 Superstructure Condition: 7  
 \* 227 Collision Damage: 0  
 60A Substructure Condition: 6  
 60B Scour Condition: 6  
 60C Underwater Condition: N  
 71 Waterway Adequacy: 9  
 61 Channel Protection Cond: 6  
 68 Deck Geometry: 2  
 69 UnderClr. Horz/Vert: N  
 72 Appr. Alignment: 8  
 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  
 Type3s2: 00  
 Timber: 00  
 Piggyback: 00  
 253 Notification Date 02/01/1901  
 253 Fed Notify Date: 02/01/1901 0

## 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: 6  
 216 Water Depth: 03.0 Br. Height: 24.8  
 222 Slope Protection: 6  
 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.: 121-00070D-017.83N

# TRANSPORTATION SYSTEMS DESIGN, INC.

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April 21, 2003

## Meeting Minutes

SR 70/Fulton Industrial Blvd. Over Camp Creek

**RE:** BRST-021-1(42)  
PI No. 731861  
TSD No. 0108.05 WO #6

**Subject:** Concept Meeting

**Location:** GDOT District 7

Present:

Wade Woodard	Dist 7 Utilities	770-986-1090	<a href="mailto:wade.woodard@dot.state.ga.us">wade.woodard@dot.state.ga.us</a>
Liza Barr	Dist 7 R/W	770-986-1255	<a href="mailto:liza.barr@dot.state.ga.us">liza.barr@dot.state.ga.us</a>
Bobby Crawford	Dist 7 Preconstr	770-986-1050	<a href="mailto:robert.crawford@dot.state.ga.us">robert.crawford@dot.state.ga.us</a>
Rhonda Barnett	Dist 7 R/W	770-986-1295	<a href="mailto:barnett.rhonda@dot.state.ga.us">barnett.rhonda@dot.state.ga.us</a>
Margie Pozin	TSD	770-396-4877	<a href="mailto:mpozin@tsdengineers.com">mpozin@tsdengineers.com</a>
Dan Bodycomb	TSD	770-396-4877	<a href="mailto:dbodycomb@tsdengineers.com">dbodycomb@tsdengineers.com</a>

Minutes:

Dan started with the need and purpose of the project and continued through the concept report.

He noted that the proposed maximum grade of 5.5% shown in the report would likely be changed to 6.2%.

Bobby concurred that the LGPA for public utilities was signed by Fulton County on 12-20-00 as shown in the concept report.

When we got to the cost estimates, Rhonda asked that we add \$10,000 to the price shown for incidentals. She said since there are 5 property owners and you just don't know what will happen between now and then, she would like to see a little extra money available. Margie went on to say that the bulk of the property at this location is currently owned by Fulton County.

Wade commented on the cost shown for utility pole relocation. Since there exists a signed LGPA, we do not need to show this cost as a contract item. However, as a matter of information, \$6000 per pole would be a better approximate cost to use, depending on the type of pole, of course, if a cost needs to be estimated. We were showing what equated to \$2000 per pole, which he said was on the low side.

Wade asked that we check for bike/ped plans in the area. [TSD regularly checks this during concept phase].

Dan continued the meeting with an explanation of the plan/profile sheet. He reinforced that the minimum 660' radius was used and no superelevation will be included in the temporary detour design.

Since R/W lines were inadvertently omitted from the plots, Dan described that these R/W lines will be set based on the construction limits of the mainline. He went on to say that temporary easement will be set using the construction limits of the detour unless utilities dictate that additional R/W is required. We collectively discussed

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### ENGINEERING • SURVEYING • LANDSCAPE ARCHITECTURE

□ 5591 Chamblee Dunwoody Road, Bldg. 1360, Suite 100, Atlanta, GA 30338 • (770) 396-4877 Fax: (770) 551-9427 •

[tsd@tsdengineers.com](mailto:tsd@tsdengineers.com)

□ 471 Scenic Highway, Lawrenceville, GA 30045 • (770) 338-1147 Fax: (770) 338-1353 • [tsd\\_g@tsdengineers.com](mailto:tsd_g@tsdengineers.com)

# TRANSPORTATION SYSTEMS DESIGN, INC.

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the merits of showing temporary easement vs. permanent easement vs. required R/W. Rhonda said it was fine with her if we show all required R/W and then revise as recommended at PFPR. Thus, the land may very well end up as temporary easement, but we do not know that at this time. We will wait for more input from the utility companies and go from there.

Bobby had questions about the fiscal years for which this (as well as the other) project was scheduled. He said he would take these issues up with Otis.

Meeting was adjourned.

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# NOTICE OF LOCATION AND DESIGN APPROVAL

**BRST-021-1(42), Fulton County  
P. 1. NUMBER 731861**

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 this project.

The date of location approval is August 19, 2003.

The project is located in Fulton County on SR 70 /Fulton Industrial Blvd over Camp Creek. The project is located in Land District 9C in Land Lots 14F.

The project consists of the replacement of the structurally deficient bridge on SR 70 over Camp Creek. The proposed bridge structure will be built on existing location with a detour bridge to the northwest of the existing bridge.

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

Mr. Kevin Vinson – District 7, Area 3 Engineer  
email: Kevin.Vinson@dot.state.ga.us  
940 Virginia Avenue,  
Hapeville, GA 30354  
Tel: (404) 559-6655  
Fax: (404) 559-4928

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

Brent Story, P.E.  
Office of Consultant Design  
Brent.Story@dot.state.ga.us  
No. 2 Capital Square  
Atlanta, Georgia 30334  
404-463-6133

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

# Department of Transportation State of Georgia

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## INTERDEPARTMENT CORRESPONDENCE

**FILE** BRST-021-1(42), Fulton County  
P.I. # 731861

**OFFICE** Environment/Location

**DATE** April 17, 2002

**FROM** Harvey D. Keeper, State Environment/Location Engineer

**TO** James B. Buchan, P.E., State Consultant Design Engineer.  
**Attn.** Ted Cashin

**SUBJECT** Traffic Assignment for S.R. 70/Fulton Ind. Blvd. at Camp Creek in Fulton County.

We are furnishing estimated traffic assignments for the above project as follows:

2000 ADT = 5100  
2007 ADT = 5600  
2027 ADT = 7700  
K = 10%  
D = 60%  
T = 4%  
24 HOUR T. = 5.5%  
S.U. = 4%  
COMB. = 1.5%

If you have any questions concerning this information please contact  
Abby Ebodaghe at (404) 699-4460.

HDK/AFE



# Department of Transportation State of Georgia

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

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

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

EARL MAHFUZ  
TREASURER  
(404) 656-5224

## INTERDEPARTMENT CORRESPONDENCE

May 22, 2002

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

**TO:** James B. Buchan, P.E., State Consultant Design Engineer  
Attn: Ted Cashin

**SUBJECT: Bridge Replacement**

**BRST-021-1 (42) / Fulton**  
**Structure ID 121-0061-0**  
**Location ID 121-00070D-017.83N**  
**SR 70 over Camp Creek**

This bridge was built in 1941 and consists of concrete bents, concrete T- beam superstructure, and a concrete deck. The original design load capacity is H-15. The sufficiency rating on the structure is 64.1, and the bridge is classified as Functionally Obsolete and requires widening. However, in accordance with DOT policy 2405-1, we recommend that this bridge be replaced though due to unacceptable load capacity. Due to this criteria no additional cost analysis or coring by the lab will be required. This bridge does not currently qualify for federal replacement BR funding but does qualify for federal bridge widening funds, which can be used toward replacement up to the estimated cost of widening. The remaining funds would have to come from another funding source.

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

BG/BKS

cc: Percy Middlebrooks

DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA  
OFFICE OF CONSULTANT DESIGN

PROJECT CONCEPT REPORT

Project Number: BRST-021-1(42)

County: Fulton

P.I. Number: 731861

Federal Route Number: N/A

State Route Number: 70

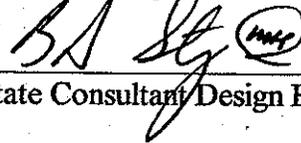
Recommendation for approval:

DATE 7-3-03



Project Manager

DATE 7-15-03



State Consultant/Design Engineer

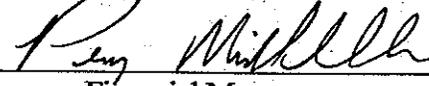
The concept as presented herein and submitted for approval is consistent with that which is included in the Regional Transportation Plan (RTP) and/or the State Transportation Improvement Program (STIP).

DATE \_\_\_\_\_

6/2/03

DATE \_\_\_\_\_

State Transportation Planning Administrator



Financial Management

DATE \_\_\_\_\_

State Environmental / Location Engineer

DATE \_\_\_\_\_

State Traffic Safety and Design Engineer

DATE \_\_\_\_\_

District Engineer

DATE \_\_\_\_\_

Project Review Engineer

DATE \_\_\_\_\_

State Bridge & Structural Design Engineer

DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA  
OFFICE OF CONSULTANT DESIGN

PROJECT CONCEPT REPORT

Project Number: BRST-021-1(42)  
County: Fulton  
P.I. Number: 731861

Federal Route Number: N/A  
State Route Number: 70

Recommendation for approval:

DATE 7-3-03



Project Manager

DATE 7-15-03



State Consultant Design Engineer

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

DATE \_\_\_\_\_

State Transportation Planning Administrator

DATE \_\_\_\_\_

Financial Management

DATE \_\_\_\_\_

State Environmental / Location Engineer

DATE \_\_\_\_\_

State Traffic Safety and Design Engineer

DATE \_\_\_\_\_

District Engineer

DATE \_\_\_\_\_

Project Review Engineer

DATE 7/29/03



State Bridge & Structural Design Engineer

DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA  
OFFICE OF CONSULTANT DESIGN

PROJECT CONCEPT REPORT

Project Number: BRST-021-1(42)

County: Fulton

P.I. Number: 731861

Federal Route Number: N/A

State Route Number: 70

Recommendation for approval:

DATE 7-3-03



Project Manager

DATE 7-15-03



State Consultant Design Engineer

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

DATE \_\_\_\_\_

State Transportation Planning Administrator

DATE \_\_\_\_\_

Financial Management

DATE \_\_\_\_\_

State Environmental / Location Engineer

DATE \_\_\_\_\_

State Traffic Safety and Design Engineer

DATE 7-21-03



District Engineer

DATE \_\_\_\_\_

Project Review Engineer

DATE \_\_\_\_\_

State Bridge & Structural Design Engineer