

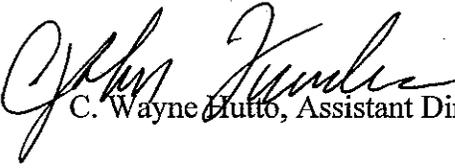
**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

FILE BRST-0746 (6) Harris County
P.I. No. 343372

OFFICE Preconstruction

DATE November 27, 2001

FROM  C. Wayne Hutto, Assistant Director of Preconstruction

TO SEE DISTRIBUTION

SUBJECT PROJECT CONCEPT REPORT APPROVAL

Attached for your file(s) is the approval for subject project.

CWH/cj

Attachment

DISTRIBUTION:

Tom Turner
David Mulling
Harvey Keeper
Jerry Hobbs
Herman Griffin
Michael Henry
Phillip Allen
Marta Rosen
Paul Liles
Jimmy Chambers
Glenn Durrence

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

FILE BRST-0746(6) Harris County **OFFICE** Preconstruction
P.I. No. 343372

DATE October 26, 2001

FROM  C. Wayne Hutto, P.E., Assistant Director of Preconstruction

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

SUBJECT PROJECT CONCEPT REPORT

This project is the replacement of two narrow and structurally deficient bridges on SR 116 over Bethlehem Creek and Bethel Creek, 6.0 miles northeast of Hamilton, Georgia. The existing bridges, constructed in 1964, are 28' wide with sufficiency ratings of 45 and 42. The existing approaches consist of a two lane roadway with rural shoulders. The base year traffic (2006) along this section of SR 116 is 3,800 VPD and the 20 year (2026) or design year projected volume is 6,800 VPD. The posted speed and the design speed are 55 MPH.

The construction proposes to relocate SR 116 south of its present location, extending a total of 0.95 mile. The proposed new bridges will be 105' x 44' and 85' x 44' and will be located just south of the existing bridge structures. The relocated SR 116 will consist of two, 12' lanes with 10' rural shoulders (2' paved). Traffic will be maintained on the existing bridges while the proposed bridges are constructed.

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:

	<u>PROPOSED</u>	<u>APPROVED</u>	<u>PROG DATE</u>	<u>LET DATE</u>
Construction (includes E&C and inflation)	\$1,903,000	\$1,100,000	2003	FY 05
Right-of-Way	\$ 35,000	\$ 10,000		
Utilities*	LGPA	LGPA		

*Harris County signed LGPA for utilities 8-3-99.

Frank L. Danchetz
Page 2

BRST-0746(6) Harris
October 26, 2001

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

CWH:JDQ/cj

Attachment

CONCUR



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

APPROVE



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

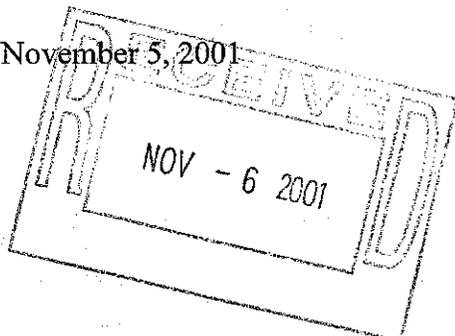
DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENTAL CORRESPONDENCE

FILE: BRSEB-0746(6) Harris
P.I. Number 343372-
OFFICE: Engineering Services
DATE: November 5, 2001

FROM: David Mulling, Project Review Engineer
TO: Wayne Hutto, Assistant Director of Pre-construction

SUBJECT: CONCEPT REPORT



We have reviewed the concept report submitted October 19, 2001 by the letter from James R. Chambers dated October 18, 2001, and have no comment.

The costs for the project are:

Construction	\$1,647,000
Inflation	\$ 82,000
E&C	\$ 173,000
Reimbursable Utilities	\$ 20,000
Right of Way	\$ 35,000

DTM

c: Jim Chambers – Attention: Otis Clark

SCORING RESULTS AS PER MOG 2440-2

Project Number: BRSLB-0746(6)		County: HARRIS		PI No.: 343372-		
Report Date: 10/18/01			Concept By:			
			DOT Office: CONSULTANT DESIGN			
<input checked="" type="checkbox"/> CONCEPT						
			Consultant: J. B. TRIMBLE, INC.			
Project Type: Choose One From Each Column		<input type="checkbox"/> Major <input checked="" type="checkbox"/> Minor	<input type="checkbox"/> Urban <input checked="" type="checkbox"/> Rural	<input type="checkbox"/> ATMS <input checked="" type="checkbox"/> Bridge <input type="checkbox"/> Building <input type="checkbox"/> Interchange <input type="checkbox"/> Intersection <input type="checkbox"/> Interstate <input type="checkbox"/> New Location <input type="checkbox"/> Widening & Reconstruction <input type="checkbox"/> Miscellaneous		
FOCUS AREAS	SCORE	RESULTS				
Presentation	100%					
Judgement	100%					
Environmental	100%					
Right of Way	100%					
Utility	100%					
Constructability	100%					
Schedule	100%					

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

FILE **BRST-0746(6) Harris County**
SR 116 @ Bethlehem Creek 6 mi NE of Hamilton
P.I. No. 343372-

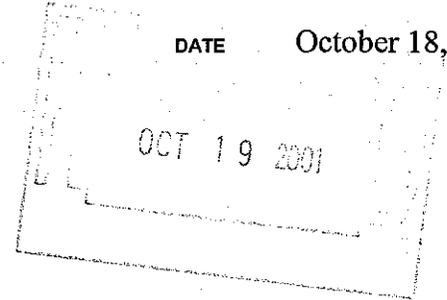
FROM *James R. Chambers, M.E.P.*
James R. Chambers, State Consultant Design Engineer

TO Wayne Hutto, Assistant Director of Preconstruction

SUBJECT **PROJECT CONCEPT REPORT**

OFFICE Atlanta

DATE October 18, 2001



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

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 Otis Clark at (404)463-6265 or Steve Tiedemann of J.B. Trimble, Inc. at (770) 952-1022.

Distribution:

David Mulling, Project Review Engineer
Harvey Keepler, State Environmental/Location Engineer
Phillip Allen, State Traffic Safety and Design Engineer
Marta Rosen, State Transportation Planning Administrator
Herman Griffin, State Transportation Programming Engineer
Glenn Durrence, District Engineer – Thomaston
Paul Liles, State Bridge & Structural Engineer

JRC: OC

cc: J.B. Trimble, Inc.

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
OFFICE OF CONSULTANT DESIGN

PROJECT CONCEPT REPORT

Project Number: BRST-0746(6)

County: HARRIS

P.I. Number: 343372

Federal Route Number: N/A

State Route Number: 116

Recommendation for approval:

DATE 10-19-01

DATE 10-18-07



Project Manager



State Consultant Design Engineer

MBD

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

DATE _____

State Transportation Planning Administrator

DATE _____

State Transportation Programming Engineer

DATE _____

State Environmental / Location Engineer

DATE _____

State Traffic Safety & Design Engineer

DATE _____

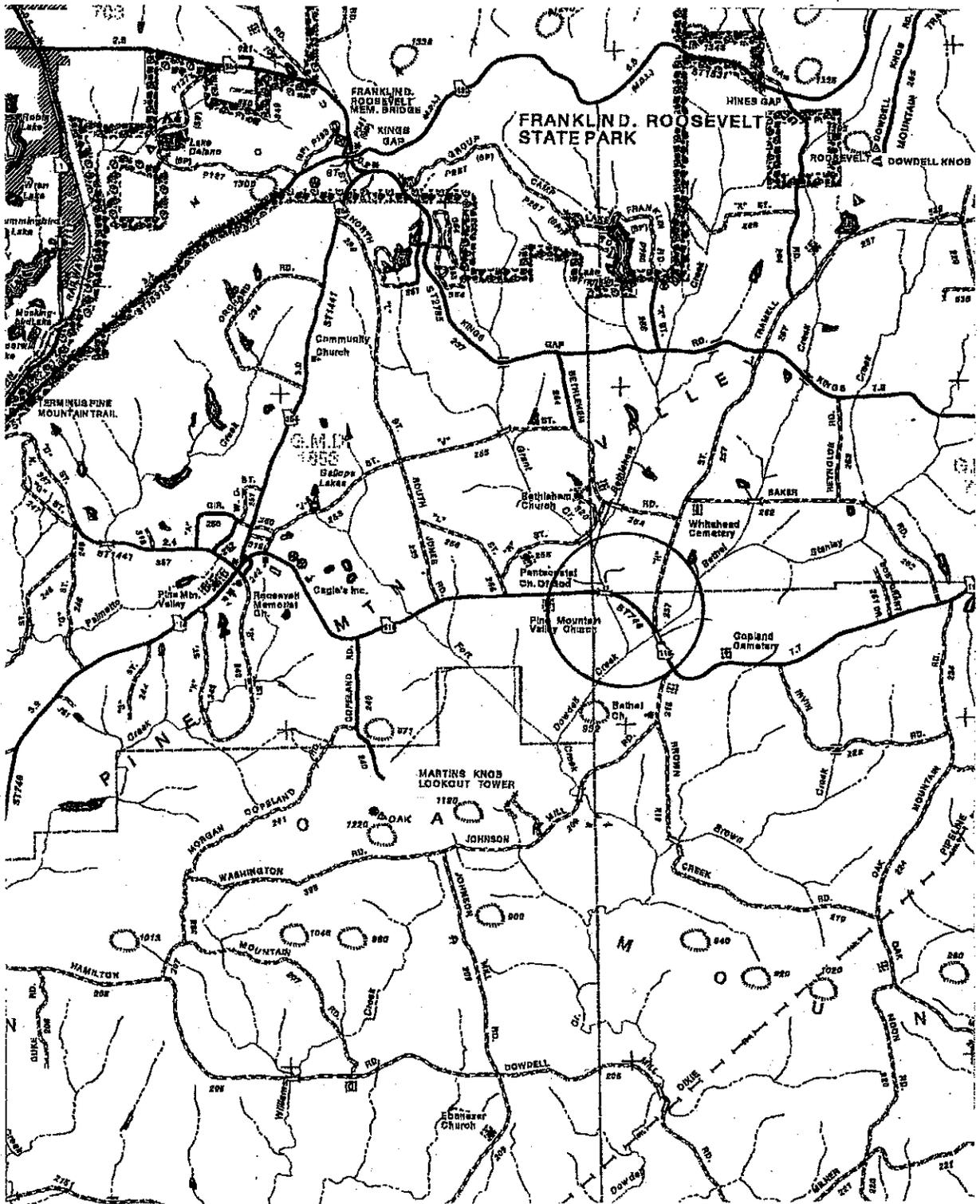
District Engineer

DATE _____

Project Review Engineer

DATE _____

State Bridge & Structural Engineer



Location Map

Project: BRST-0746(6) Harris County PI No.: 343372-
Description: SR 116 @ Bethlehem Creek 6 mi NE of Hamilton

Need and Purpose Statement

**SR 116 over Bethlehem Creek and Bethel Creek 6 miles NE of Hamilton
BRST-0746 (6), Harris County
P.I. No.: 343372**

Bridge project BRST-0746 (6) would replace the structurally deficient bridges located on State Route (SR) 116 over Bethlehem Creek and Bethel Creek. The bridge over Bethlehem Creek's sufficiency rating is 45.0 and the bridge over Bethel Creek's sufficiency rating is 42.0. The Office of Bridge Maintenance has determined that any structure with a sufficiency rating less than 50 be replaced rather than improved. This project would replace the existing bridges with structurally adequate bridges.

This section of SR 116 is functionally classified as a rural major collector and is designated as a school bus route. The posted speed along this section of SR 116 is 55 mph. The bridges are located 6 miles northeast of Hamilton and were constructed in 1964. The Average Daily Traffic (ADT) along this section of SR 116 is 3800 for 2006. The projected (2026) ADT is 6800 with 5% trucks.

Replacing these bridges will bring them up to current design standards and in doing so will improve the operation and safety of this roadway.

PROJECT CONCEPT REPORT

PROJECT: BRST-0746(6)

PROJECT NEED & PURPOSE
See Attached

DESCRIPTION OF PROPOSED PROJECT
<p>This project is located in Harris County on SR 116, approximately 6 miles north of the city limits of Hamilton. It consists of replacing (2) structurally deficient bridges on SR 116. The first bridge is at Bethlehem Creek and the second bridge is at Bethel Creek. Traffic will be maintained on the existing alignments during construction and the proposed alignment will be constructed on the south side of SR 116.</p> <p>Project Length: 0.95 miles Is the project located in a Non-attainment area? No</p>

PDP CLASSIFICATION <u>MINOR</u>		
Full Oversight ()	Exempt (X)	State Funded ()

FUNCTIONAL CLASSIFICATION
RURAL MAJOR COLLECTOR

TRAFFIC				
CURRENT		PROJECTED		
<u>YEAR</u>	<u>AADT</u>	<u>YEAR</u>	<u>AADT</u>	
2006	3,800	2026	6,800	

PROJECT CONCEPT REPORT

EXISTING DESIGN FEATURES				
TYPICAL SECTION: The existing roadway is a two lane rural section with 12-foot travel lanes, shoulders and side ditches.				
R/W WIDTH:				
POSTED SPEED	MAX DEGREE OF CURVATURE		MAX GRADE	
55 mph	≈4°00'00"		≈6.0%	
STRUCTURES:	Length	Width	Priority Rating	Sufficiency Rating
STRUCTURE NO. 145-0023-0 BRIDGE OVER BETHLEHEM CREEK	90'	28'	1-36S	45.0
STRUCTURE NO. 145-0024-0 BRIDGE OVER BETHEL CREEK	84'	26'	NA	42.0
EXISTING ROADWAY SEGMENT LENGTH: 0.94 miles				
BEGINNING MILE LOG FOR COUNTY SEGMENT: 016.31				

PROPOSED DESIGN FEATURES		
TYPICAL SECTION: The proposed roadway will consist of two 12-foot travel lanes, 2 foot paved shoulders, 8 foot unpaved shoulders and rural side ditch sections.		
MAINLINE DESIGN SPEED	MAX DEGREE OF CURVE	MAX GRADE
55 mph	Proposed: 4°00'00" Allowable: 5°15'00"	Proposed: 6.0% Allowable: 7.0%

PROJECT CONCEPT REPORT

PROPOSED RIGHT OF WAY				
R/W WIDTH: Varies 75' min. 150' max.'				
EASEMENTS:	Temporary (X)	Permanent (X)	Utility ()	Other ()
TYPE OF ACCESS CONTROL:	Full ()	Partial ()	By Permit (X)	Other ()
NUMBER OF PARCELS IMPACTED: 10				
DISPLACEMENTS:	Businesses ()	Residences ()	Mobile Homes ()	Other ()

STRUCTURES		
	LENGTH	WIDTH
Bridge 1 over Bethlehem Creek	105'	44'
Bridge 2 over Bethel Creek	85'	44'
Description: Both bridges will be single span bridges with precast concrete beams on concrete end bents.		

MAJOR INTERSECTIONS AND INTERCHANGES
Description: None

TRAFFIC CONTROL DURING CONSTRUCTION
Description: The proposed structures will be constructed on the south side of SR 116 while traffic is maintained on the existing bridge and roadway.

PROJECT CONCEPT REPORT

DESIGN EXCEPTIONS TO CONTROLLING CRITERIA ANTICIPATED:

	YES	NO	UNDETERMINED
HORIZ ALIGNMENT	()	(X)	()
ROADWAY WIDTH	()	(X)	()
SHOULDER WIDTH	()	(X)	()
VERT GRADES	()	(X)	()
CROSS SLOPES	()	(X)	()
STOPPING SIGHT DIST	()	(X)	()
SUPERELEV RATES	()	(X)	()
HORIZ CLEARANCE	()	(X)	()
SPEED DESIGN	()	(X)	()
VERTICAL CLEARANCE	()	(X)	()
BRIDGE WIDTH	()	(X)	()
BR STRUCT CAPACITY	()	(X)	()

Design Variances: NONE

Environmental Concerns: NWP 23 with PCN anticipated.

LEVEL OF ENVIRONMENTAL ANALYSIS

Are Time Saving Procedures Appropriate?: Yes (X) No ()

Categorical Exclusion (X)
Anticipated

Environmental Assessment /
Finding of No Significant
Impact (FONSI) ()

Environmental Impact
Statement ()

UTILITY INVOLVEMENTS

WATER:

TELEPHONE:

POWER:

GAS:

CABLE TV:

PROJECT CONCEPT REPORT

PROJECT RESPONSIBILITIES

DESIGN: J.B. Trimble, Inc.

RIGHT OF WAY ACQUISITION: Georgia Department of Transportation

RELOCATION OF UTILITIES: Harris County via LGPA

LETTING TO CONTRACT: Georgia Department of Transportation

SUPERVISION OF CONSTRUCTION: Georgia Department of Transportation

PROVIDING MATERIAL PITS: Contractor

PROVIDING DETOURS: N/A

COORDINATION

CONCEPT TEAM MEETING DATE (Minutes Attached): October 11, 2001

MEETS LOGICAL TERMINI REQUIREMENTS: Yes

P.A.R. MEETING: None

LOCATION INSPECTION DATE: August 20, 2000

FEMA, USCG AND/OR TVA: None

LEVEL OF PUBLIC INVOLVEMENT: None

LOCAL GOVERNMENT COMMITMENTS: Utility Relocation; LGPA signed by Harris County 8-3-99

OTHER PROJECTS IN THE AREA: BRST-0746(8), BRST-0746(7)

OTHER COORDINATION TO DATE: None

PROJECT CONCEPT REPORT

SCHEDULING (Responsible Parties' Estimate)

TIME TO COMPLETE ENVIRONMENTAL PROCESS:	4	Months
TIME TO COMPLETE PRELIMINARY RD/RW PLANS:	3	Months
TIME TO COMPLETE 404 PERMIT:	3	Months
TIME TO COMPLETE FINAL CONSTRUCTION PLANS:	3	Months
TIME TO PURCHASE RIGHT-OF-WAY:	12	Months
OTHER MAJOR ITEMS THAT WILL AFFECT PROJECT SCHEDULE:	None	

ALTERNATIVES CONSIDERED

Alternate 1 - Close SR 116 and route traffic to an off-site detour. This was considered impractical since the detour would be 15-20 miles long and would require vehicles to travel SR 354 to SR 190 to SR 85 Alt.

Alternate 2 - Permanently realign SR 116 to the north. There are two houses fairly close to the road that would be substantially impacted if the road were shifted to the north. Also, both bridges are located in curves to the right (south) and a northern relocation would be difficult. For these reasons this alternative was determined to be impractical.

Alternate 3 - Temporarily maintain traffic via on-site detours and construct the bridges in the existing locations. Because of the fill and distance required for both detours, it is estimated that temporary detours on the east side would cost approximately \$660,000. Therefore, this alternative was determined to be impractical.

Alternate 4 - Rehabilitate the existing structure. The FHWA has mandated that any structure with a sufficiency rating less than 50 should be replaced. Since these bridges have sufficiency ratings of 45 and 42, a full replacement is required and this alternative was discarded.

Alternate 5 - Permanently realign SR 116 to the south. Since there are no structures close to the road and the terrain is largely open pasture, this alternative was considered to be the most practical.

PROJECT CONCEPT REPORT

COMMENTS:

For comparison purposes, the total cost for the alternative selected is approximately \$1,937,370. The total project cost of the alternative utilizing an on-site detour would have been \$2,597,370. The cost of the alternative with an on-site detour takes in to account the fact that less right of way would be required.

ATTACHMENTS:

- Detailed Cost Estimate
- Sketch Location Map
- Typical Sections
- Estimated traffic assignments
- Need and Purpose Statement
- Concept Team meeting minutes
- Notice of Location and Design Approval
- Bridge inventory data

PREPARED BY: J.B. Trimble, Inc.

**PROJECT CONCEPT REPORT
PRELIMINARY COST ESTIMATE**

PROJECT NUMBER: BRST-0746(6)

COUNTY: HARRIS

DATE: September 26, 2001

ESTIMATED LETTING DATE:

PREPARED BY: J.B. Trimble, Inc.

PROJECT LENGTH (MILES): 0.95 Mi

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

PROJECT COST	
A. RIGHT-OF-WAY:	
1. PROPERTY (LAND & EASEMENT)	\$25,000.00
2. DISPLACEMENTS; RES:0, BUS:0, M.H.:0	\$0.00
3. OTHER COST (ADM./COST, INFLATION)	\$10,000.00
SUBTOTAL: A	\$35,000.00
B. REIMBURSABLE UTILITIES: (LGPA)	
1. RAILROAD	\$0.00
2. TRANSMISSION LINES	\$0.00
3. SERVICES	\$20,000.00
SUBTOTAL: B	\$20,000.00
CONSTRUCTION	
C. MAJOR STRUCTURES	
1. RETAINING WALLS	\$0.00
2. BRIDGES (105' X 44' bridge) & (85' X 44' bridge)	\$627,000.00
3. DETOUR BRIDGES	\$0.00
4. EXTEND/REPLACE EXISTING CULVERTS	\$15,000.00
SUBTOTAL: C	\$642,000.00

PROJECT CONCEPT REPORT

D. GRADING AND DRAINAGE		
1. EARTHWORK		
a. BORROW: (28,300 cu. yd. @ \$6.00)		\$169,800.00
b. EXCAVATION: (27,700 cu. yd. @ \$4.00)		\$110,800.00
	SUBTOTAL: D-1	\$280,600.00
2. DRAINAGE		
a. SIDE DRAIN PIPE (560 ft of 18 in @) \$21)		\$11,760.00
b. FES (28 ea @ \$300)		\$8,400.00
c. 24" TYPE I RIPRAP (12 SY @ \$40)		\$480.00
	SUBTOTAL: D-2	\$20,640.00
	SUBTOTAL: D	\$301,240.00
E. BASE AND PAVING		
1. AGGREGATE BASE (12,000 sq. yd. of 12" @ \$12)		\$144,000.00
2. SURFACE AGGREGATE (200 tons @ \$15)		\$3,000.00
3. ASPHALT PAVING		
a. Surface - 19 mm Superpave (1,150 tons @ \$34.50)		\$39,675.00
b. Binder - 25 mm Superpave (3,610 tons @ \$37)		\$133,570.00
c. Base - 12.5 mm Superpave (4,440 tons @ \$33)		\$146,520.00
d. Leveling (150 tons @ \$36.50)		\$5,475.00
e. Tack Coat (2,200 gals @ \$1)		\$2,200.00
	SUBTOTAL: E-3	\$427,440.00
4. CONCRETE PAVING – Approach Slabs (230 sq. yd. @ \$90)		\$20,700.00
	SUBTOTAL: E	\$495,140.00

PROJECT CONCEPT REPORT

F. LUMP ITEMS		
1. TRAFFIC CONTROL		\$50,000.00
2. CLEARING AND GRUBBING		\$40,000.00
3. GRASSING		\$10,000.00
4. EROSION CONTROL		\$50,000.00
5. REMOVAL OF EXISTING BRIDGE		\$38,000.00
	SUBTOTAL: F	\$188,000.00
G. MISCELLANEOUS		
1. SIGNING		
a. SIGNS		\$500.00
b. POSTS		\$500.00
	SUBTOTAL: G-1	\$1,000.00
2. STRIPING		
1. 5 IN WHITE SOLID (5450 ft @ \$0.50)		\$2,725.00
2. 5 IN YELLOW SOLID (5450 ft @ \$0.50)		\$2,725.00
	SUBTOTAL: G-2	\$5,450.00
3. GUARDRAIL		
a. TYPE W (600 ft @ \$12)		\$7,200.00
b. TYPE T (84 ft @ \$35)		\$2,940.00
c. TYPE 12 ANCHORS (2 @ \$1600)		\$3,200.00
d. TYPE 1 ANCHORS (2 @ \$450)		\$900.00
	SUBTOTAL: G-3	\$14,240.00
	SUBTOTAL: G	\$20,690.00

PROJECT CONCEPT REPORT

ESTIMATE SUMMARY	
A. RIGHT-OF-WAY	\$ 35,000.00
B. REIMBURSABLE UTILITIES	\$ 20,000.00 (LGPA)
CONSTRUCTION	
C. MAJOR STRUCTURES	\$642,000.00
D. GRADING AND DRAINAGE	\$301,240.00
E. BASE AND PAVING	\$495,140.00
F. LUMP ITEMS	\$188,000.00
G. MISCELLANEOUS	\$20,690.00
SUBTOTAL CONSTRUCTION COST	\$1,647,070.00
INFLATION (5% PER YEAR)	\$82,355.00
NUMBER OF YEARS - 1	
E. & C. (10%)	\$172,945.00
TOTAL CONSTRUCTION COST	\$1,902,370.00
GRAND TOTAL PROJECT COST	\$1,937,370.00

PI 343372
Concept Team Meeting Notes

Attendees:

Bill Patrick – Harris County Engineer	706-628-4958
Scott Parker – GDOT District #3 Traffic & Operations	706-646-6561
Otis Clark – GDOT Office of Consultant Design	404-463-6265
Ronny Stubbs – GDOT District #3 Right-of-Way	706-646-6540
Kim Brown – GDOT District #3 Utilities	706-646-6548
Lamar Pruitt Jr. – GDOT District #3 Construction	706-646-6569
Steve Linley – J.B. Trimble	770-952-1022

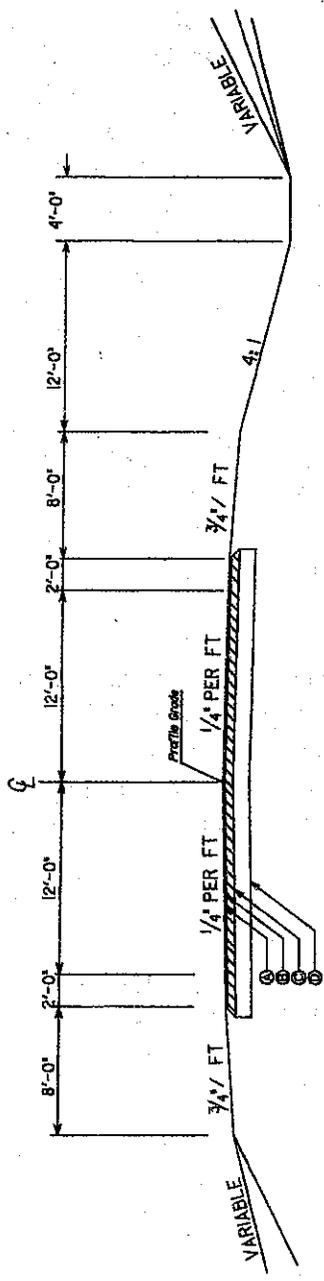
Steve Linley of J.B. Trimble, the consultant firm providing the design services for the project, gave a brief overview of the project including a discussion of how the alignment was developed. Primarily, the proposed alignment along the south side of SR 116 was chosen as the most feasible way to keep the state route open while constructing new structures over Bethel & Bethlehem Creeks. An on site detour was not considered cost effective.

Items of discussion included:

Mr. Pruitt questioned whether or not a culvert could be utilized at these locations reducing the construction cost substantially. Mr. Linley stated that he believed that the hydraulic analysis prohibited the use culverts at these locations. Mr. Linley was later informed that a box culvert design would not meet minimum backwater criteria and would also produce excessive stream velocities.

Mr. Pruitt asked about the possibility of utilizing local county routes as an offsite detour. Mr. Patrick informed the team that there is a substandard structure along the proposed off site detour route. Mr. Linley also questioned if the existing county routes roadway width would be sufficient and if logging trucks would be able to navigate all the turning movements. At the end of the discussion it was concluded that an off site detour utilizing county routes was not a viable alternative.

Mr. Pruitt questioned if the skew of the intersection of CR 257 could be increased from 78° to 90°. Mr. Linley stated that it could but would require more R/W acquisition from the adjacent property owner and/or increase the degree of curvature of the CR 257 geometrics. Mr. Parker stated he thought the alignment was fine and that there was adequate sight lines.



TANGENT SECTION

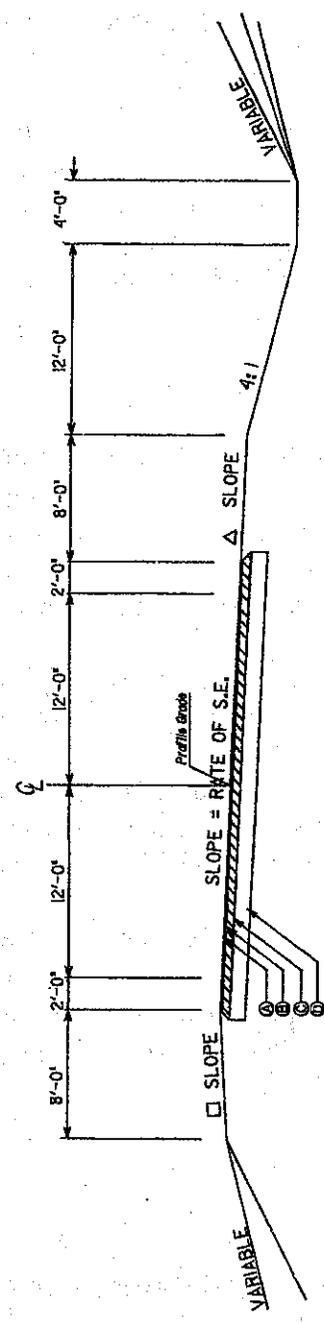
- REQUIRED PAVEMENT
- Ⓐ ASPHALTIC CONCRETE "E", 1 1/2"
 - Ⓑ ASPHALTIC CONCRETE "B", 2"
 - Ⓒ ASPHALTIC BASE, 6"
 - Ⓓ GRADED AGGREGATE BASE, 12"

Δ SLOPE 3/4" / 1'-0" OR RATE OF S.E. WHICHEVER IS GREATER

□ SLOPE AS FOLLOWS:

- S.E. RATE OF 0.03'/FT OR LESS USE 1/2" IN 1'-0"
- S.E. RATE OF 0.04'/FT, USE 3/4" IN 1'-0"
- S.E. RATE OF 0.05'/FT, USE 1" IN 1'-0"
- S.E. RATE OF 0.06'/FT, USE 1 1/4" IN 1'-0"
- S.E. RATE OF 0.07'/FT, USE 1 1/2" IN 1'-0"
- S.E. RATE OF 0.08'/FT, USE 1 3/4" IN 1'-0"

ALGEBRAIC DIFFERENCE IN PAVING AND SHOULDER SLOPES NOT TO EXCEED 0.08'/FT



SUPERELEVATED SECTION

- REQUIRED PAVEMENT
- Ⓐ ASPHALTIC CONCRETE "E", 1 1/2"
 - Ⓑ ASPHALTIC CONCRETE "B", 2"
 - Ⓒ ASPHALTIC BASE, 6"
 - Ⓓ GRADED AGGREGATE BASE, 12"

SLOPE CONTROLS	
SLOPE	CUT / FILL
4:1	0'-6" / 0'-10"
3:1	6'-10" / ---
2:1	OVER 10' / OVER 10'

ALLOWABLE RANGES TABLE

FOR THIS PROJECT CROSS SLOPES THAT ARE ADJUSTED TO "BEST FIT" EXISTING PAVEMENT SLOPES ARE SUBJECT TO THE FOLLOWING LIMITS:

A. NORMAL CROWN	SECTION WITH GRADES LESS THAN 0.2%
0.0150 FT/FT - MINIMUM	0.0156 FT/FT - MINIMUM
0.0208 FT/FT - DESIRABLE	0.0208 FT/FT - DESIRABLE
0.0250 FT/FT - MAXIMUM	0.0300 FT/FT - MAXIMUM

B. SUPERELEVATION RATE

S.E. RATE SHOWN ON PLANS OR SE RATE EXISTING IN FIELD, WHICHEVER IS GREATER.

C. SUPERELEVATION TRANSITION LENGTH (LENGTH FROM FLAT POINT TO FULL SE)

RATE OF CHANGE	CORRESPONDING DIFFERENCE IN GRADE BETWEEN PIVOT POINT AND EDGE OF PAVEMENT
MINIMUM 1:150	0.67%
DESIRABLE 1:200	0.50%
MAXIMUM 1:300	0.33%

D. POSITIONING OF SUPERELEVATION TRANSITION LENGTH ON SIMPLE CURVES

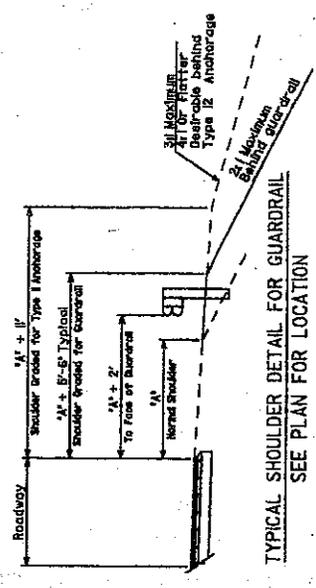
SOX OF TRANSITION INSIDE CURVE - MAXIMUM

SOX OF TRANSITION INSIDE CURVE - DESIRABLE

SOX OF TRANSITION INSIDE CURVE - MINIMUM

NOTE: CROWN WIPE-OUT SHALL BE AT THE SAME RATE AS THE SE TRANSITION.

E. SMOOTHING OF BREMS IN EDGE PROFILE AT BEGIN AND END OF TRANSITION SHALL BE ACCOMPLISHED BY VERTICAL CURVE WITH A MINIMUM LENGTH (IN FEET) EQUAL TO THE SPEED DESIGN (IN MPH).



TYPICAL SHOULDER DETAIL FOR GUARDRAIL
SEE PLAN FOR LOCATION

NOTICE OF LOCATION AND DESIGN APPROVAL

BRST-0746(6), Harris County

P. 1. NUMBER 343372

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 this project.

The date of location approval is NOVEMBER 27, 2001.

The project is located in Harris County on SR 116 at Bethlehem Creek and Bethel Creek. The project is located in Land District 21 in Land Lots 2055, 206 and 211.

The project consists of the replacement of the structurally deficient bridges on SR 116 over Bethlehem Creek and Bethel Creek. The proposed bridge structures will both be built on new alignments to the south of the existing bridges.

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. Dewayne Meacham – Area Engineer
Email address: dewayne.meacham@dot.state.ga.us
3600 Schatulga Road
Columbus, Georgia 31907
706-568-2165

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:

Otis Clark
Office of Consultant Design
Otis.Clark@dot.state.ga.us
No. 2 Capital Square
Atlanta, Georgia 30334
404-463-6265

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

INTERDEPARTMENT CORRESPONDENCE

FILE BRST-0746(6), Harris County
OFFICE Environment/ Location
P.I. # 343372
DATE March 22, 2000

FROM David E. Studstill, P.E., State Environment/ Location

TO Jimmy Chamber, Office Of Consultant Management
Attn. Ted Cashin

SUBJECT SR 116 @ Little Bethlehem Creek 6 miles north of Hamilton in
Harris County.

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

2006 AADT = 3800

2026 AADT = 6800

K = 10%

D = 60%

T = 5%

24 HR. T = 7%

S.U. = 4%

COMB. = 3%

If you have any questions concerning this information please contact Dan Funk
at (404) 699-3474.

BRIDGE INVENTORY DATA LISTING GEORGIA DEPARTMENT OF TRANSPORTATION

Structure ID: 145-0023-0

Harris County

SUFF. RATING: 55.2

Location & Geography

* Structure I.D. No.: 145-0023-0
 * 200 Bridge Information: 06
 * 6A Feature Int.: BETHLEHEM CREEK
 * 6B Critical Bridge: 0
 * 7A Route Number Carried: SR00116
 * 7B Facility Carried: SR 116
 * 9 Location: 6 MILES N.E. HAMILTON
 * 2 DOT District: 3
 * 207 Year Photo: 1997
 * 91 Inspection Frequency: 24 Date: 12/08/1999
 * 92A Fract Crit Insp Freq: 0 00 Date: 0000
 * 92B Underwater Insp Freq: 0 00 Date: 0000
 * 92C Other Spc. Insp Freq: 0 00 Date: 0000

* 4 Place Code: 00000

* 5 Inventory Route (O/U): 1
 Type: 3
 Designator: 1
 Number: 00116
 Direction: 0

* 16 Latitude: 32-47.8
 * 17 Longitude: 84 -46.7

* 98 Border Bridge: 000 %Shared: 00
 * 99 ID Number: 0000000000000000

* 100 Defense Highway: 0
 * 101 Parallel Structure: N
 * 102 Direction of Traffic: 2
 * 264 Road Inventory Mile Post: 016.59

* 208 Inspection Area: 08 Initials: JLA
 * Location I.D. No: 145-00116D-016.85E
 * XReferen I.D. No: 000-000000-000.000

Signs & Attachments

* 104 Highway System: 0
 * 26 Functional Classification: 07
 * 204 Federal Route Type: S No: 00746
 * 110 Truck Route: 0

206 School Bus Route: 1
 217 Benchmark Elevation: 0.00
 218 Datum: 0

* 19 Bypass Length: 3
 * 20 Toll: 3
 * 21 Maintenance: 01
 * 22 Owner: 01

* 31 Design Load: 2
 37 Historical Significance: 5
 205 Congressional District: 03
 * 27 Year Constructed: 1964

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: 3

* 42 Type Service On: 1
 Under: 5

214 Movable Bridge: 00
 203 Type Bridge: E-N-O-O
 259 Pile Encasement: 1

* 43 Structure Type Main: 1 04
 45 No. Spans Main: 003
 44 Structure Type Appr: 0 0
 46 No. Spans Appr: 0000
 226 Bridge Curve Horz: 1 Vert: 1
 111 Pier Protection: 0
 107 Deck Structure Type: 1

108 Wearing Surface Type: 1
 Membrane: 0
 Protection: 0

223 Expansion Joint Type: 02
 242 Deck Drains: 1

243 Parapet Location: 0
 Height: 0
 Width: 0

238 Curb: 1.2 1
 239 Handrail: 1 1
 * 240 Median Barrier Rail: 0

241 Bridge Median Height: 0
 Width: 0

* 230 Guardrail Loc Dir Rear: 3
 Fwrd: 3
 Oppo Dir Rear: 0
 Fwrd: 0

244 Approach Slab: 3
 224 Retaining Wall: 0

233 Posted Speed Limit: 55
 236 Warning Sign: 0
 234 Delimeter: 1
 235 Hazard Boards: 0

237 Utilities Gas: 00
 Water: 00
 Electric: 00
 Telephone: 00
 Sewer: 00

247 Lighting Street: 0
 Navigation: 0
 Aerial: 0

* 248 County Continuity No: 00

BRIDGE INVENTORY DATA LISTING GEORGIA DEPARTMENT OF TRANSPORTATION

Structure ID: 145-0023-0

Harris County

SUFF. RATING: 55.2

Programming Data

201 Project No: RAB (4) SP 1873-B (6)
 202 Plans Available: 0
 249 Prop. Proj No: BRST-0746 (6)
 250 Approval Status: 0000
 251 P.I. No: 343372
 252 Contract Date: 02/01/2002
 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: 0000
 114 Future ADT: 002100 Year: 2018

Measurements

* 29 ADT: 001400 Year: 1998
 109 % Trucks: 16
 * 28 Lanes On: 02 Under: 00
 210 No. Tracks On: 00 Under: 00
 * 48 Max. Span Length: 0030
 * 49 Structure Length: 90
 51 Br. Rdwy. Width: 28.0
 52 Deck Width: 32.2
 * 47 Tot. Horz. Cl: 28.0
 50 Curb/Sdewik Width: 2.0/2.0
 32 Approach Rdwy Width: 23
 * 229 Shlder Width:

Rear Lt: 2.0 Type: 2 Rt: 2.0
 Fwd Lt: 2.0 Type: 2 Rt: 2.0
 Pvmnt Width:

Rear: 23.0 Type: 2
 Fwd: 23.0 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: 99' 99"
 Under: N 00' 00"

* 228 Min. Vert. Cl
 Act. Odm. Dir: 99' 99"
 Oppo. Dir: 99' 99"
 Posted Odm. Dir: 00' 00"
 Oppo. Dir: 00' 00"

55 Lateral Undercl. Rt: N 99.9
 56 Lateral Undercl. Lt: 0.0
 * 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: 6.0
 Deck Thick Approach: 0.0
 246 Overlay Thickness: 0.0
 211 Tons Structural Steel: 0.0
 212 Year Last Painted: Sup: 0000 Sub: 1988

Hydraulic Data

215 Waterway Data
 Highway Elev: 0000.0 Year: 0000
 Flood Elev: 0000.0 Freq: 00
 Avg. Streambed Elev: 0000.0
 Drainage Area: 00000
 Area of Opening: 6
 113 Scour Critical: 6
 216 Water Depth: 00.7 Br Height: 18.3
 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: 0.0
 Height: 0.0
 Length: 0
 Apron: 0
 * 265 U/W Insp. Area: 0 Diver: ZZZ

* Location I.D. No: 145-00116D-016.85E
 * XReferen I.D. No: 000-000000-000.000

Ratings

66 Inventory Type: 2 Rating: 13
 64 Operating Type: 2 Rating: 29
 231 Calculated Loads
 / H-Modified: 14 1
 HS-Modified: 22 1
 Type 3: 18 1
 Type 3s2: 33 1
 Timber: 25 1
 Piggyback: 00 0

261 H Inventory Rating: 10

262 H Operating Rating: 15

67 Structural Evaluation: 2

58 Deck Condition: 6

59 Superstructure Condition: 6

* 227 Collision Damage: 0

60A Substructure Condition: 6

60B Scour Condition: 7

60C Underwater Condition: N

71 Waterway Adequacy: 8

61 Channel Protection Cond: 8

68 Deck Geometry: 5

69 UnderClr. Horz/Vert: N

72 Appr. Alignment: 5

62 Culvert: N

Posting Data

70 Bridge Posting Required: 3
 41 Struct Open, Posted, Cl: P
 * 103 Temporary Structure: T

232 Posted Loads H-Modified: 14
 HS-Modified: 22
 Type 3: 18
 Type 3S2: 33
 Timber: 25
 Piggyback: 00

253 Notification Date: 0000
 253 Fed Notify Date: 0000

BRIDGE INVENTORY DATA LISTING GEORGIA DEPARTMENT OF TRANSPORTATION

Structure ID: 145-0024-0

Harris County

SUFF. RATING: 42.0

Location & Geography

* Structure I.D. No.: 145-0024-0
 * 200 Bridge Information: 06
 * 6A Feature Int.: BETHEL CREEK
 * 6B Critical Bridge: 0
 * 7A Route Number Carried: SR00116
 * 7B Facility Carried: SR 116
 * 9 Location: 5 MILES S.W. SHILOH
 * 2 DOT District: 3
 * 207 Year Photo: 1997
 * 91 Inspection Frequency: 24 Date: 12/08/1999
 * 92A Fract Crit Insp Freq: 0 00 Date: 0000
 * 92B Underwater Insp Freq: 0 00 Date: 0000
 * 92C Other Spc. Insp Freq: 0 00 Date: 0000
 * 4 Place Code: 00000
 * 5 Inventory Route (O/U): 1
 * Type: 3
 * Designator: 1
 * Number: 00116
 * Direction: 0
 * 16 Latitude: 32-47.5
 * 17 Longitude: 84-46.4
 * 98 Border Bridge: 000 %Shared: 00
 * 99 ID Number: 0000000000000000
 * 100 Defense Highway: 0
 * 101 Parallel Structure: N
 * 102 Direction of Traffic: 2
 * 264 Road Inventory Mile Post: 017.05
 * 208 Inspection Area: 08 Initials: JLA
 * Location I.D. No: 145-00116D-017.34E
 * XReferen I.D. No: 000-0000000-000.000

Signs & Attachments

* 104 Highway System: 0
 * 26 Functional Classification: 07
 * 204 Federal Route Type: S No: 00746
 * 110 Truck Route: 0
 * 206 School Bus Route: 1
 * 217 Benchmark Elevation: 0.00
 * 218 Datum: 0
 * 19 Bypass Length: 5
 * 20 Toll: 3
 * 21 Maintenance: 01
 * 22 Owner: 01
 * 31 Design Load: 2
 * 37 Historical Significance: 5
 * 205 Congressional District: 03
 * 27 Year Constructed: 1964
 * 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: 3
 * 42 Type Service On: 1 Under: 5
 * 214 Movable Bridge: 00
 * 203 Type Bridge: E-N-O-O
 * 259 Pile Encasement: 3
 * 43 Structure Type Main: 1 04
 * 45 No. Spans Main: 003
 * 44 Structure Type Appr: 0 0
 * 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: 1 Membrane: 0 Protection: 0
 * 223 Expansion Joint Type: 02
 * 242 Deck Drains: 1
 * 243 Parapet Location: 0
 * Height: 0
 * Width: 0
 * 238 Curb: 1.2 1
 * 239 Handrail: 1 1
 * 240 Median Barrier Rail: 0
 * 241 Bridge Median Height: 0 Width: 0
 * 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: 0
 * 234 Deflector: 1
 * 235 Hazard Boards: 0
 * 237 Utilities Gas: 00 Water: 00 Electric: 00 Telephone: 00 Sewer: 00
 * 247 Lighting Street: 0 Navigation: 0 Aerial: 0
 * 248 County Continuity No: 00

BRIDGE INVENTORY DATA LISTING GEORGIA DEPARTMENT OF TRANSPORTATION

Structure ID: 145-0024-0

Harris County

SUFF. RATING: 42.0

Programming Data

201 Project No: RAB (4) SP 1873-B (6)
 202 Plans Available: 0
 249 Prop. Proj No: 0
 250 Approval Status: 0000
 251 P.I. No: 000000
 252 Contract Date: 0000
 260 Seismic No: 00000
 75 Type Work: 34 1
 94 Bridge Imp. Cost: \$ 72
 95 Roadway Imp. Cost: \$ 41
 96 Total Imp. Cost: \$ 152
 76 Imp. Length: 000295
 97 Imp. Year: 1990
 114 Future ADT: 001500 Year: 2019

Measurements

* 29 ADT: 001000 Year: 1999
 109 % Trucks: 16
 * 28 Lanes On: 02 Under: 00
 210 No. Tracks On: 00 Under: 00
 * 48 Max. Span Length: 0028
 * 49 Structure Length: 84
 51 Br. Rdwy. Width: 26.0
 52 Deck Width: 30.3
 * 47 Tot. Horz. Cl: 26.0
 50 Curb/Sdewlk Width: 2.0/2.0
 32 Approach Rdwy Width: 23
 * 229 Shldr Width:

Rear Lt: 2.0 Type: 2 Rt: 2.0
 Fwd Lt: 2.0 Type: 2 Rt: 2.0
 Pmnt Width:
 Rear: 23.0 Type: 2
 Fwd: 23.0 Type: 2
 Intersection Rear: 1 Fwd: 0
 36 Safety Features Br. Rail:
 Transition: 2
 App. G. Rail: 2
 App. Rail End: 2
 53 Minimum Cl. Over: 99' 99"
 Under: N 00' 00"
 * 228 Min. Vert. Cl

Hydraulic Data

215 Waterway Data
 Highwater Elev: 0000.0 Year: 0000
 Flood Elev: 0000.0 Freq: 00
 Avg. Streambed Elev: 0000.0
 Drainage Area: 00000
 Area of Opening: 000000
 113 Scour Critical: 6
 216 Water Depth: 00.8 Br Height: 14.8
 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: 0.0
 Height: 0.0
 Length: 0
 Apron: 0
 * 265 U/W Insp. Area: 0 Diver: ZZZ

Ratings

66 Inventory Type: 2 Rating: 13
 64 Operating Type: 2 Rating: 29
 231 Calculated Loads
 H-Modified: 15 1
 HS-Modified: 25 0
 Type 3: 27 1
 Type 3s2: 40 0
 Timber: 33 1
 Piggyback: 00 0
 261 H Inventory Rating: 10
 262 H Operating Rating: 15
 67 Structural Evaluation: 2
 58 Deck Condition: 6
 59 Superstructure Condition: 6
 * 227 Collision Damage: 0
 60A Substructure Condition: 5
 60B Scour Condition: 6
 60C Underwater Condition: N
 71 Waterway Adequacy: 8
 61 Channel Protection Cond: 8
 68 Deck Geometry: 5
 69 UnderClr. Horz/Vert: N
 72 Appr. Alignment: 7
 62 Culvert: N

Posting Data

70 Bridge Posting Required: 3
 41 Struct Open, Posted, Cl: P
 * 103 Temporary Structure: 0
 232 Posted Loads H-Modified: 15
 HS-Modified: 00
 Type 3: 27
 Type 3S2: 00
 Timber: 33
 Piggyback: 00
 253 Notification Date: 0000
 253 Fed Notify Date: 0000 0

* Location I.D. No: 145-00116D-017.34E
 * XReferen I.D. No: 000-000000-000.000

Report Date: 02/05/2001

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
OFFICE OF CONSULTANT DESIGN

PROJECT CONCEPT REPORT

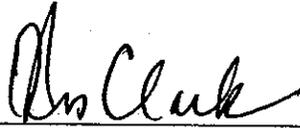
Project Number: BRST-0746(6)
County: HARRIS
P.I. Number: 343372

Federal Route Number: N/A
State Route Number: 116

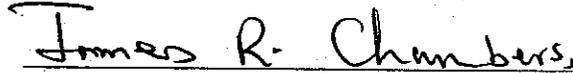
Recommendation for approval:

DATE 10-18-01

DATE 10-18-01



Project Manager



State Consultant Design Engineer

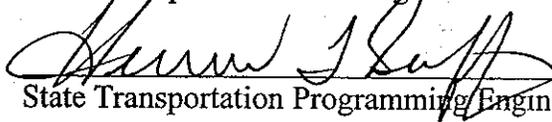
The concept as presented herein and submitted for approval is consistent with that which is included in the State Transportation Improvement Program (STIP).

DATE _____

10/19/01

DATE _____

State Transportation Planning Administrator



State Transportation Programming Engineer

DATE _____

State Environmental / Location Engineer

DATE _____

State Traffic Safety & Design Engineer

DATE _____

District Engineer

DATE _____

Project Review Engineer

DATE _____

State Bridge & Structural Engineer

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
OFFICE OF CONSULTANT DESIGN

PROJECT CONCEPT REPORT

Project Number: BRST-0746(6)
County: HARRIS
P.I. Number: 343372

Federal Route Number: N/A
State Route Number: 116

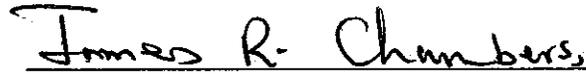
Recommendation for approval:

DATE 10-19-01

DATE 10-18-01



Project Manager



State Consultant Design Engineer *mba*

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

DATE 10-31-01

DATE _____

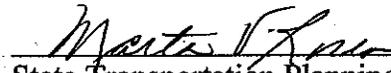
DATE _____

DATE _____

DATE _____

DATE _____

DATE _____



State Transportation Planning Administrator

State Transportation Programming Engineer

State Environmental / Location Engineer

State Traffic Safety & Design Engineer

District Engineer

Project Review Engineer

State Bridge & Structural Engineer

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
OFFICE OF CONSULTANT DESIGN

PROJECT CONCEPT REPORT

Project Number: BRST-0746(6)

County: HARRIS

P.I. Number: 343372

Federal Route Number: N/A

State Route Number: 116

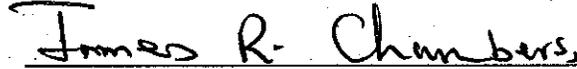
Recommendation for approval:

DATE 10-19-01

DATE 10-18-07



Project Manager



State Consultant Design Engineer

MSA

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

DATE _____

State Transportation Planning Administrator

DATE _____

State Transportation Programming Engineer

DATE _____

State Environmental / Location Engineer

DATE _____

State Traffic Safety & Design Engineer

DATE 10/29/01



District Engineer

DATE _____

Project Review Engineer

DATE _____

State Bridge & Structural Engineer

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
OFFICE OF CONSULTANT DESIGN

PROJECT CONCEPT REPORT

Project Number: BRST-0746(6)

County: HARRIS

P.I. Number: 343372

Federal Route Number: N/A

State Route Number: 116

Recommendation for approval:

DATE 10-19-01

DATE 10-18-01



Project Manager



State Consultant Design Engineer

MSA

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

DATE _____

State Transportation Planning Administrator

DATE _____

State Transportation Programming Engineer

DATE _____

State Environmental / Location Engineer

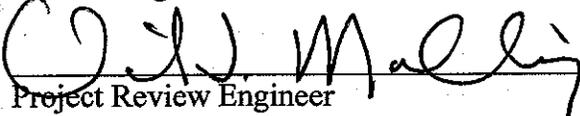
DATE _____

State Traffic Safety & Design Engineer

DATE _____

District Engineer

DATE 11/5/01



Project Review Engineer

DATE _____

State Bridge & Structural Engineer

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
OFFICE OF CONSULTANT DESIGN

PROJECT CONCEPT REPORT

Project Number: BRST-0746(6)

County: HARRIS

P.I. Number: 343372

Federal Route Number: N/A

State Route Number: 116

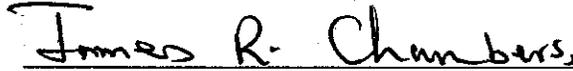
Recommendation for approval:

DATE 10-18-01

DATE 10-18-01



Project Manager



State Consultant Design Engineer

MSA

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

DATE _____

State Transportation Planning Administrator

DATE _____

State Transportation Programming Engineer

DATE _____

State Environmental / Location Engineer

DATE _____

State Traffic Safety & Design Engineer

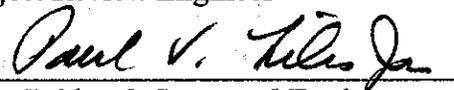
DATE _____

District Engineer

DATE _____

Project Review Engineer

DATE 11/7/01



State Bridge & Structural Engineer

Department of Transportation
State of Georgia

INTERDEPARTMENTAL CORRESPONDENCE

File: BRST - 0746(6) / Harris County
P.I. No. 343372

Office: Traffic Safety & Design
Atlanta, Georgia
Date: October 23, 2001

PMA/bm
From: Phillip M. Allen, State Traffic Safety and Design Engineer
To: Wayne Hutto, Assistant Director of Preconstruction
Subject: Project Concept Report Review

We have reviewed the above referenced concept report for the replacement of two structurally deficient bridges on SR 116. This project is located 6 miles north of Hamilton.

The existing structure over Bethlehem Creek is 28 feet wide with a sufficiency rating of 45. The existing structure over Bethel Creek is 26 feet wide with a sufficiency rating of 42. The concept proposes to construct two new structures 44 feet wide for the two-lane roadway. The current ADT is 3800 vehicles and the design year ADT is projected to be 6800 vehicles. The proposed bridge widths are in accordance with MOG 4265-10 for this type of roadway.

We believe this concept will improve safety and traffic operations within this area, therefore find this report satisfactory for approval.

PMA/bm

Attachment (signature page)

Cc: Harvey Kepler, State Environment/Location Engineer
James Chambers, State Consultant Design Engineer
Attention: Oits Clark
David Mulling, State Review Engineer, w/ attachment
Marta Rosen, State Transportation Planning Administrator
Paul Liles, State Bridge & Structural Design Engineer
Chuck Hasty, TMC
General Files
Office Files

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
OFFICE OF CONSULTANT DESIGN

PROJECT CONCEPT REPORT

Project Number: BRST-0746(6)
County: HARRIS
P.I. Number: 343372

Federal Route Number: N/A
State Route Number: 116

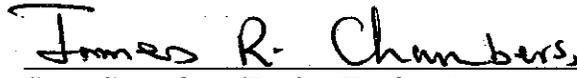
Recommendation for approval:

DATE 10-18-01

DATE 10-18-01



Project Manager



State Consultant Design Engineer *msa*

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

DATE

State Transportation Planning Administrator

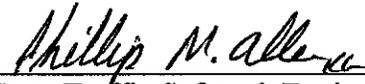
DATE

State Transportation Programming Engineer

DATE

State Environmental / Location Engineer

11/19/01
DATE



State Traffic Safety & Design Engineer

DATE

District Engineer

DATE

Project Review Engineer

DATE

State Bridge & Structural Engineer