

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

RECEIVED
MAR - 4 1991
PRECONSTRUCTION

FILE FR-179-1 (8), BHF-179-1 (9) Polk/Bartow **OFFICE** Atlanta, Georgia
P.I. No. 621430, 621435 Counties
Widen SR 113 - Bridges Over Hill & Dry Creeks **DATE** March 1, 1991

FROM Robert E. Humphrey, Project Review Engineer **REH:gr**

TO William J. Durrence, Director of Preconstruction

SUBJECT PROJECT CONCEPT REPORT

We have reviewed the attached Concept Report for this Major project.

We have received signed cover sheets from the following offices.

1. Bridge Design
2. Road Design

This report is satisfactory for approval.

The estimated costs of this project are as follows:

		<u>FR-179-1(8)</u>	<u>BHF-179-1(9)</u>
Construction	\$7,288,000	\$7,052,000	132,000
Inflation (5% per year) x 4 yrs.	1,457,600	1,410,400	26,400
E & C (10%)	874,560	846,240	15,840
Preliminary Engineering (5%)	437,280		
Right of Way	2,057,000		
Utilities	296,500		

MJB/jmf

Attachments

c: Frank Danchetz

Hal Rives
Page 2
March 22, 1991

FR-179-1(8) Bartow-Polk Counties & BHF-179-1(9) Bartow County

	<u>BHF-179-1(9)</u>		
	<u>PROPOSED</u>	<u>APPROVED</u>	<u>PROG. DATE</u>
Constr(Inf1&E/C)	\$174,000	\$610,000	FY 95
Right-of-way	0	No Est.	Preprogram
Utilities	LGPA*	LGPA*	

*LGPA to be sent after concept approval

I recommend that we approve this project concept report for these two projects, that they be removed from Preprogram Status and added to the Construction Work Program for implementation.

WJD/WLP/se

Attachment

CONCUR:

G. C. Lewis
G. C. Lewis, State Highway Engineer

APPROVED:

Hal Rives
Hal Rives, Commissioner

DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE FR-179-1(8) Bartow-Polk Counties OFFICE Preconstruction
 BHF-179-1(9) Bartow County
 P.I. No. 621430; 621435 DATE March 22, 1991
 Needs Rating-Unk. Suff. Rating-4.0; 55.4
 FROM ~~William J. "Juan" Durrence, Director of Preconstruction~~
 TO Hal Rives, Commissioner
 SUBJECT WIDEN SR 113 - NEW BRIDGES AT HILLS AND DRY CREEK - PROJECT CONCEPT REPORT

These combined projects will widen a 4.5 mile section of SR 113 to have a multilane section from the south Taylorsville city limits in Polk County northeast to Co. Rd. 31 in Stilesboro in Bartow County. The existing road has 24' of pavement and 4' shoulders on 100' of right-of-way. Major structures consist of a double 7'x7' concrete box culvert at Dry Branch; a 23.9'x189' bridge at Hills Creek (Sufficiency Rating-4.0) and a 23.9'x135' bridge at Dry Creek (Sufficiency Rating-55.4). Base year and design year traffic is 7600 VPD (1997) and 15,200 VPD (2017).

Project FR-179-1(8) will widen SR 113 between above termini to have a rural section with 4-12' lanes (2 each direction) w/44' grassed median and 10' median and outside shoulders with 2' and 4' paved, respectively. Widening will be on the south side from beginning to north of Hills Creek, shifting to the north side at that point to end of project. Co. Rds. 45, 36 and 31 are proposed to be relocated at SR 113 to achieve better angles of intersection. A new 38' wide bridge will be constructed at Hills Creek and at Dry Creek with lengths of 189'(±) and 135'(±), respectively. The box culvert at Dry Branch will be extended to appropriate length along with other smaller box culverts.

Project BHF-179-1(9) will widen the existing bridge at Dry Creek to 38'. The existing substandard bridge at Hills Creek will be replaced under Project BRF-179-1(4).

Traffic will be maintained on existing road during construction. Environmental considerations are: (1) displacements of 9 residential; 1 industrial, 1 res. garage, 2 barns; (2) COE 404; (3) possible 4f (wetlands @ 2 acres; (4) 3 possible UST sites; (5) public hearing to be held. The estimated cost of the project is:

	<u>FR-179-1(8)</u>		
	<u>PROPOSED</u>	<u>APPROVED</u>	<u>PROG. DATE</u>
Constr(Infl&E/C)	\$9,309,000	\$5,153,000	FY 95
Right-of-way	\$2,057,000	No Est.	Preprogram
Utilities	LGPA*	LGPA*	

*LGPA to be sent after concept approval

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE FR-179-1(8) Bartow-Polk Counties OFFICE Preconstruction
BHF-179-1(9) Bartow County
P.I. No. 621430; 621435 DATE May 7, 1991
Needs Rating-Unk. Suff. Rating-4.0; 55.4
FROM C. Wayne Hutto, Assistant Director of Preconstruction
TO SEE DISTRIBUTION

SUBJECT PROJECT CONCEPT REPORT APPROVAL - WIDEN SR 113 - NEW BRIDGES AT
HILLS AND DRY CREEK

Attached for your files is the approval for subject project.

CWH/se

Attachment

DISTRIBUTION:

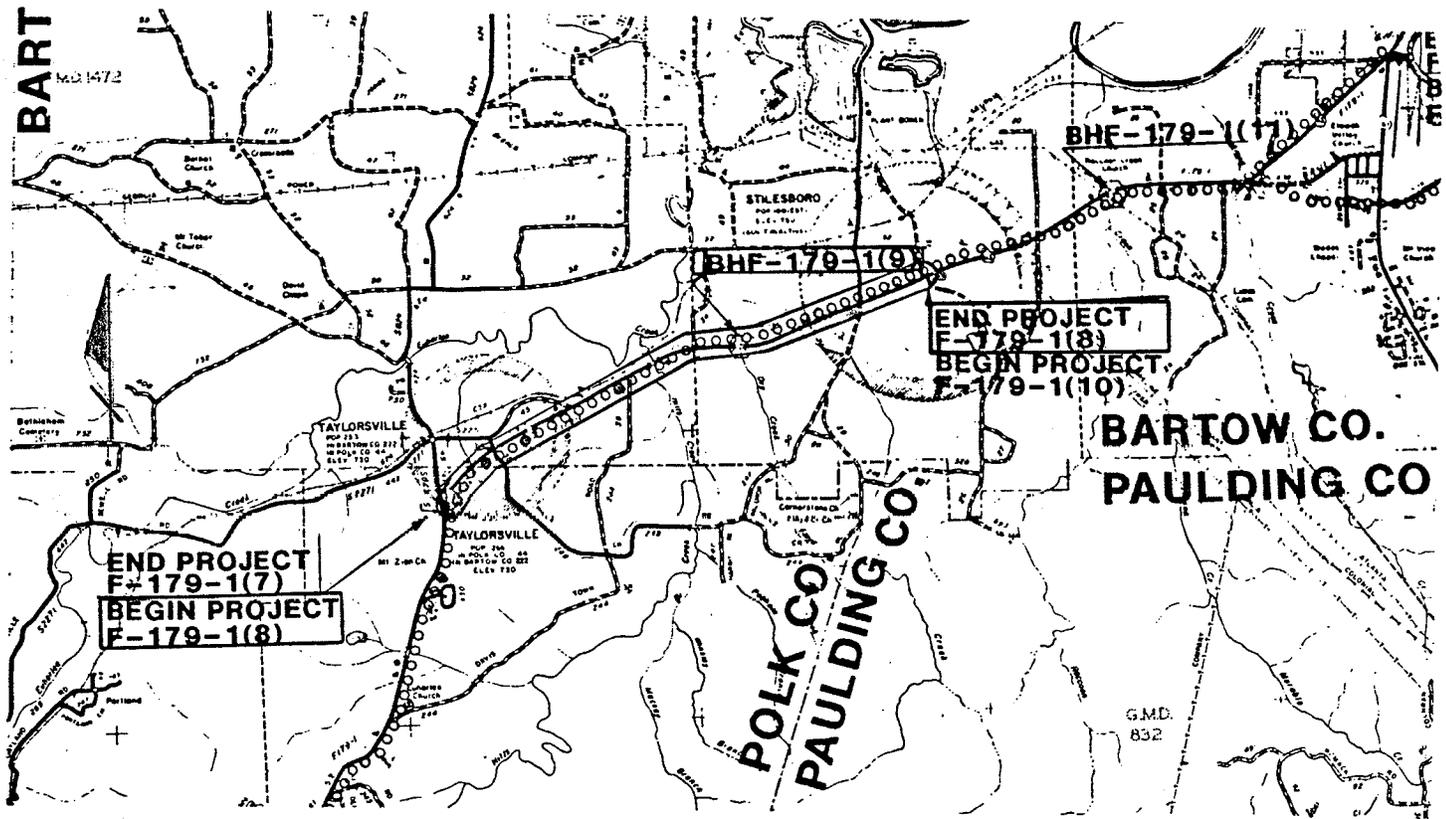
Juan Durrence
Robert E. Humphrey
Frank Danchetz
Herman Griffin
Walker Scott
Darrell Elwell
Winn Guthrie
Paul Liles
Felton Rutledge

OFFICE OF ENVIRONMENT/LOCATION

PROJECT CONCEPT REPORT



Project Number: FR-179-1(8)/BHF-179-1(9)
 County: POLK/BARTOW
 P.I. Number: 621430/621435
 Federal Route Number: F-179-1
 State Route Number: 113



RECOMMENDATION FOR APPROVAL:

DATE 12/4/90

Frank L. Danchetz
STATE ENVIRONMENTAL/LOCATION ENGINEER

DATE _____

STATE ROAD AND AIRPORT DESIGN ENGINEER

DATE _____

STATE TRAFFIC AND SAFETY ENGINEER

DATE _____

STATE BRIDGE AND STRUCTURAL DESIGN ENGINEER

DATE _____

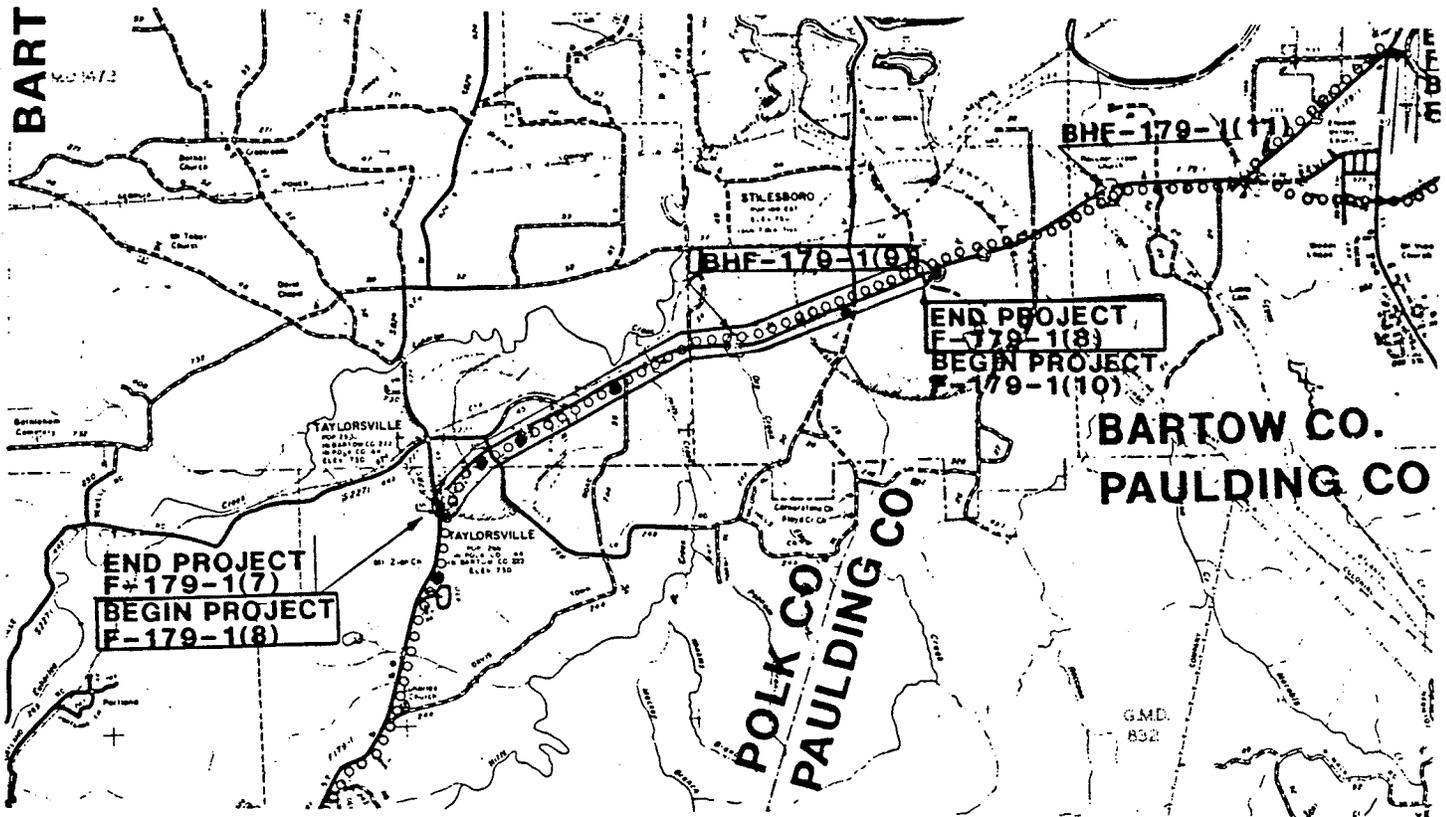
DISTRICT ENGINEER/CARTERSVILLE



OFFICE OF ENVIRONMENT/LOCATION

PROJECT CONCEPT REPORT

Project Number: FR-179-1(8)/BHF-179-1(9)
County: POLK/BARTOW
P.I. Number: 621430/621435
Federal Route Number: F-179-1
State Route Number: 113



RECOMMENDATION FOR APPROVAL:

12/4/90
DATE

Frank L. Canchity
STATE ENVIRONMENTAL/LOCATION ENGINEER

DATE

STATE ROAD AND AIRPORT DESIGN ENGINEER

DATE

STATE TRAFFIC AND SAFETY ENGINEER

DATE

STATE BRIDGE AND STRUCTURAL DESIGN ENGINEER

DATE

DISTRICT ENGINEER/CARTERSVILLE

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE



FILE FR-179-1(7)(8)(10)/BHF-179-(9)(11) OFFICE Environment/Location
Polk/Bartow Counties
P.I. Nos. 621420,621430,621440,621435,621445 DATE December 5, 1990
FROM *FLD* Frank L. Danchetz, P.E. State Environmental/Location Engineer
TO Robert Humphrey, Project Review Engineer

SUBJECT CONCEPT REPORT-S.R. 113 IMPROVEMENTS

In accordance with the plan development process, the reports for the above projects are attached for your review and processing.

FLD:JQ/me

cc: Wayne Hutto
Walker Scott
Ronald Colvin
Paul Liles
Felton Rutledge, District Engineer/Cartersville

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE



FILE BHF-179-1(9) & (11), Bartow Co. OFFICE Environment/Location
P.I. Nos. 621435, 621445 DATE January 11, 1991

FROM ^{#FD} Frank L. Danchetz, P.E., State Environmental/Location Engineer

TO Robert Humphrey, Project Review Engineer

SUBJECT Concept Reports Revision

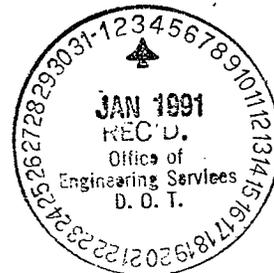
Please be advised that the above concept reports descriptions should have stated that the existing bridges at Dry Creek and Raccoon Creek would be widened instead of replaced. These bridge projects are included in the S.R. 113 improvements concept reports - FR-179-1(8) & (10) Polk/Bartow counties.

If you have any additional questions about these projects contact Jerry Hobbs at 699-4460 or GIST 229-4460.

FLD/JDQ/cdm

cc: Wayne Hutto
Walker Scott
Ronald Colvin
Paul Liles
Felton Rutledge/Cartersville

DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA



INTERDEPARTMENT CORRESPONDENCE

FILE FR-179-1(8), BHF-179-1(9), FR-179-1(10) OFFICE Atlanta
 BHF-179-1(11) Polk/Bartow Cos.
 P.I. Nos. 621430, 621435, 621440 & 621445 DATE Dec. 31, 1990
 SR - 113 *Walker W. Scott*
 FROM Walker W. Scott, P.E., State Road & Airport Design Engineer *RH*
 TO Robert Humphrey, Project Review Engineer

SUBJECT Approval - Concept Reports

The above project's concept reports have been reviewed by this office and are considered satisfactory.

WWS:PDP:bc
Attachment

FR-179-1(8); BHF-179-1(9)
Polk/Bartow Counties
P.I. Nos. 621430, 621435

This is a proposal to widen and reconstruct part of S.R. 113. Projects FR-179-1(8) and BHF-179-1(9) comprise the section from the south Taylorsville city limits east to C.R. 31 in Stilesboro, including a proposed bridge widening at Dry Creek.

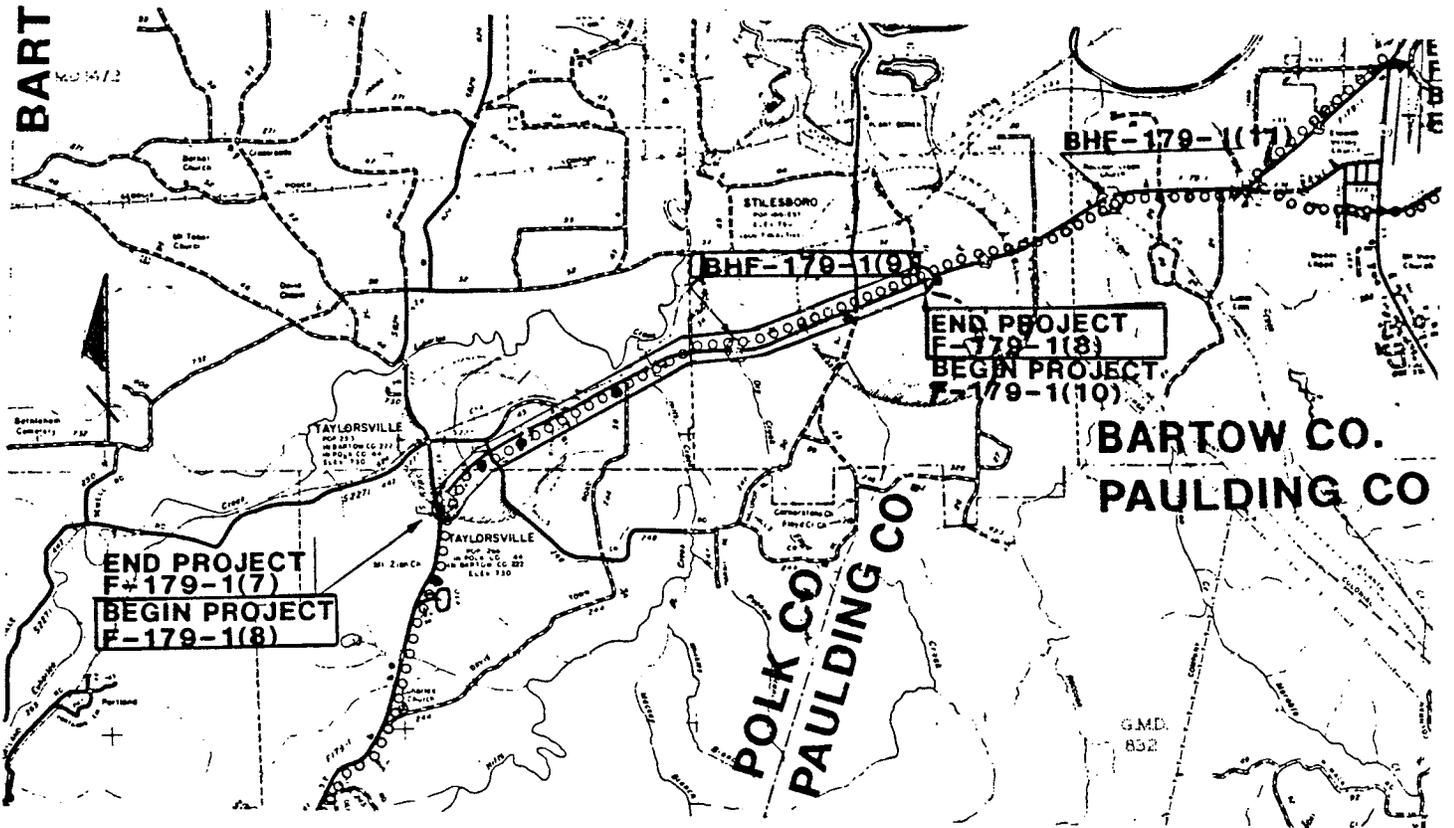
This project would consist of a rural four lane divided section (two 12-foot lanes in each direction separated by a 44-foot grassed median). The widening would occur on the south side of S.R. 113 to just past Hills Creek, then shift to the north side and continue on the north side to C.R. 31 in Stilesboro. New bridges would be constructed for the new lanes over Hill Creek and Dry Creek. C.R. 249 would be relocated to intersect S.R. 113 700'± north of its present location. Also, the intersections of County Roads 45, 36 and 31 would be relocated to be perpendicular to S.R. 113. Project BHF-179-1(9) would consist of widening the existing bridge at Dry Creek. The project length is 4.50 miles.

OFFICE OF ENVIRONMENT/LOCATION

PROJECT CONCEPT REPORT



Project Number: FR-179-1(8)/BHF-179-1(9)
 County: POLK/BARTOW
 P.I. Number: 621430/621435
 Federal Route Number: F-179-1
 State Route Number: 113



RECOMMENDATION FOR APPROVAL:

DATE 12/4/90

Frank L. Danchity
STATE ENVIRONMENTAL/LOCATION ENGINEER

DATE _____

STATE ROAD AND AIRPORT DESIGN ENGINEER

DATE _____

STATE TRAFFIC AND SAFETY ENGINEER

DATE 1/16/91

Paul V. Tyler Jr
STATE BRIDGE AND STRUCTURAL DESIGN ENGINEER

DATE _____

DISTRICT ENGINEER/CARTERSVILLE

PROJECT CONCEPT REPORT

DATE: OCTOBER , 1990

PROJECT NUMBER: FR-179-1(8); BHF-179-1(9)

COUNTY: POLK/BARTOW

PROJECT NAME: S.R. 113 IMPROVEMENTS

P.I. NUMBER: 621430/621435

U.S. ROUTE NO: F179-1

STATE ROUTE NO: 113

LOCATION

PROJECT FR-179-1(8) COMPRISES THE SECTION FROM THE SOUTH TAYLORSVILLE CITY LIMITS EAST TO C.R. 31 IN STILESBORO. PROJECT BHF-179-1(9) WOULD CONSIST OF REPLACING THE EXISTING BRIDGE AT DRY CREEK. LENGTH @ 4.5 MILES.

widening m

1/16/91

TRAFFIC

<u>CURRENT</u>		<u>PROJECTED</u>	
<u>YEAR</u>	<u>AADT</u>	<u>YEAR</u>	<u>AADT</u>
1997	7600	2017	15,200

PDP CLASSIFICATION

MAJOR PROJECT ON EXISTING LOCATION

FUNCTIONAL CLASSIFICATION

RURAL ARTERIAL

EXISTING TYPICAL SECTION

2 LANE RURAL ROADWAY WITH 4 FOOT GRASSED SHOULDERS

<u>POSTED SPEED</u>	<u>MAX EXIST DEGREE OF CURVE</u>	<u>MAX EXIST GRADE</u>
55 MPH	2° - 00'	6.01%

EXISTING MAJOR STRUCTURES

<u>RANK</u>	<u>P. RTG</u>	<u>S. RTG</u>	<u>FEATURES INTERSECTED</u>	<u>LENGTH</u>	<u>WIDTH</u>
464	817	4.0	HILLS CREEK	189	23.9
459	714	55.4	DRY CREEK	135	23.9

PROJECT NEED: THE PURPOSE OF THIS PROJECT IS TO UPGRADE THE S.R. 113 CORRIDOR BY INCREASING CAPACITY BETWEEN ROCKMART AND CARTERSVILLE.

PROJECT CONCEPT REPORT

PROJECT NUMBER: FR-179-1(8); BHF-179-1(9)

PROPOSED TYPICAL SECTION

THIS PROJECT WOULD CONSIST OF A FOUR LANE RURAL DIVIDED SECTION (TWO 12-FOOT LANES IN EACH DIRECTION SEPARATED BY A 44-FOOT GRASSED MEDIAN) WITH 4 FOOT PAVED OUTSIDE SHOULDERS AND 2 FOOT PAVED INSIDE SHOULDERS.

<u>DESIGN SPEED</u>	<u>MAX DEGREE OF CURVE</u>	<u>MAX GRADE</u>
<u>55 MPH</u>	<u>ALLOWABLE: 4° - 30'</u>	<u>ALLOWABLE: 4.5%</u>
	<u>PROPOSED: 2° - 00'</u>	<u>PROPOSED: 4.5%</u>
	<u>MAJOR STRUCTURES</u>	

NEW BRIDGES WOULD BE CONSTRUCTED FOR THE NEW LANES OVER HILL CREEK AND DRY CREEK.

LENGTHEN CULVERT @ DRY BRANCH - DBL 7X7. PROJECT BHF-¹⁷⁹~~170~~-1(9) WOULD REPLACE THE EXISTING STRUCTURE AT DRY CREEK. PROJECT ^{BRF-179-1(4)}~~BHF-179-1(14)~~ WOULD REPLACE THE EXISTING STRUCTURE AT HILLS CREEK - NOT INCLUDED IN THIS REPORT.

widen
me 1/16/91

TYPE ACCESS: REGULATED THROUGH DRIVEWAY PERMITS

TRAFFIC CONTROL DURING CONSTRUCTION: MAINTAINED ON EXISTING ROADWAY

ESTIMATED COST:

<u>CONSTRUCTION: \$ 7,288,000</u>	<u>RIGHT-OF-WAY: \$ 2,057,000</u>
<u>E&C (10%): 747,000</u>	<u>ACQUIRED BY: DOT</u>
<u>INFLATION: 729,000</u>	<u>UTILITIES: \$ 296,500</u>
<u>@ 5% PER YEAR</u>	<u>ADJUSTED BY: UNKNOWN</u>

TOTAL CONST. COST: \$ 8,764,000 (INCLUDES PROJECT BHF-179-1(9) @ \$289,000)

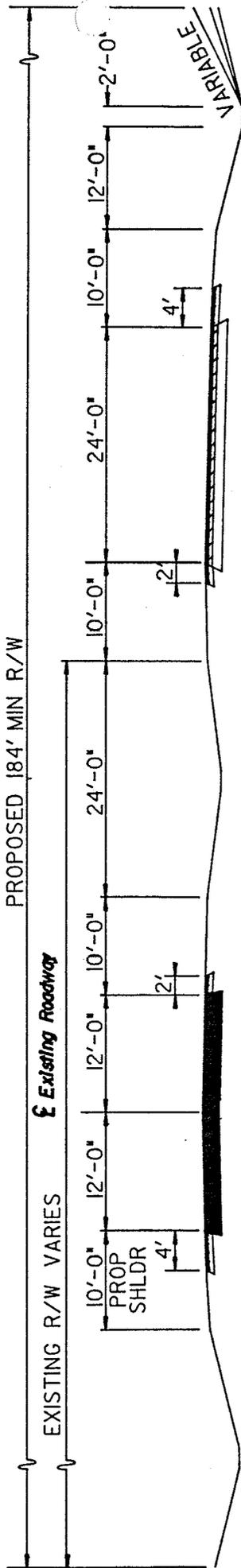
DISPLACEMENTS: 9 RESIDENTIAL; 1 INDUSTRIAL; 1 RES. GARAGE; 2 BARN

LEVEL OF ENVIRONMENTAL ANALYSIS: ENVIRONMENTAL ASSESSMENT

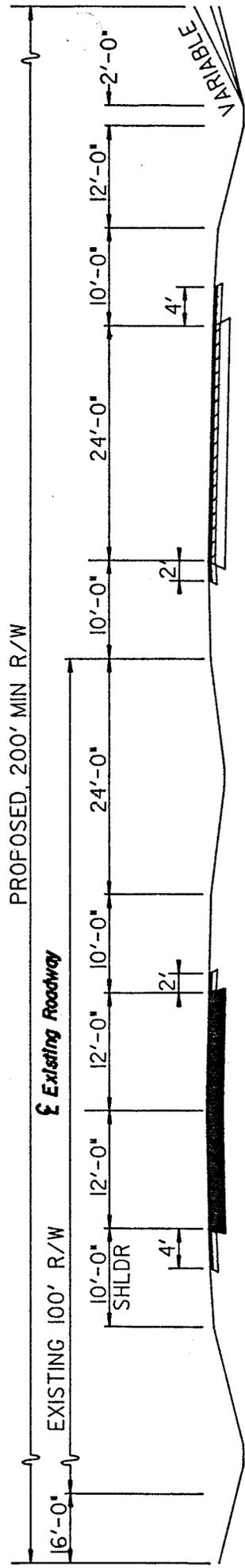
LEVEL OF PUBLIC INVOLVEMENT: PUBLIC HEARING

TIME SAVING PROCEDURES APPROPRIATE: N/A

DESIGN VARIATIONS REQUIRED: NONE REQUESTED BY ENVIRONMENT/LOCATION



TYPICAL CROSS SECTION



TYPICAL CROSS SECTION
 (RECONSTRUCT EXISTING ROADWAY AND UPGRADE SHOULDERS)

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

FILE FR-179-1(6)Spur, FR-179-1(7)(8)(10) **OFFICE** Environment/Location
BHF-179-1(9) & (11), Polk/Bartow - #621410, 621420, 621430, 621440, 621435, 621445 **DATE** October 19, 1990

FROM John Quarles, T.E. II

TO See Distribution

SUBJECT Concept Team Meeting Minutes

A team meeting for the S.R. 113 Relocation and Improvements was held on Tuesday, September 25, 1990 at 1:30 p.m. at the Office of Environment/Location. In attendance were: Johnny Quarles, Herman Hadarits, Wayne Hutto, John Richard, Ron Brown, David Studstill and Frank Danchetz of Environment/Location; Mike Gannaway and Roland Hinners of Road Design; Del Clippard, Traffic and Safety; Percy Middlebrooks, Programming; Larry Pachoud, Right-of-Way; John Humeston, FHWA; Felton Rutledge, Bill McVey, David Black, District 6; Tim Klob, Planning; Nathan Dean, State Senator-Rockmart; B. Ward, W.L. Ward of the Bartow County Commission Office.

The following describes the concept shown at the meeting:

This is a proposal to widen and reconstruct or relocate part of S.R. 113. The proposal extends from just south of the Rockmart Bypass northeast to I-75 at Emerson.

Project FR-179-1(7) encompasses the section of S.R. 113 from just south of the Rockmart Bypass northeast to the south Taylorsville city limits; project FR-179-1(8) and BHF-179-1(9) comprise the section from the south Taylorsville city limits east to C.R. 31, including a proposed bridge replacement at Dry Creek; projects FR-179-1(10) and BHF-179-1(11) comprise the section from C.R. 31 northeast to SR. 61, including a proposed bridge replacement at Raccoon Creek; and project FR-179-1(6)Spur is the relocation of S.R. 113 from existing S.R. 113 near C.R. 533 east on new location to S.R. 61, then along C.R. 636 to I-75.

The existing right-of-way on S.R. 113 is 100 feet, and the existing right-of-way of C.R. 636 varies from 50 feet to 200 feet of right-of-way is required for project FR-179-1(6)Spur, the required right-of-way would vary from 0 feet to 200 feet. Access control for the upgraded S.R. 113 and C.R. 636 would be regulated through driveway permits. Access control along the new location portion of project FR-179-1(6)Spur would be partial limited. The total length of the combined projects is 21.50 miles long.

Road Design

On CR. 636 improvements, passing lanes should be considered where detours are needed. It was also recommended that a 20' raised median be considered from the Rockmart Bypass northeast for 2.5 miles.

(Continued)

Con. Tm. Mtg. Min.
October 19, 1990
page 2

District

The current bridge projects at Hill Creek and Richland Creek will be put on hold to coincide with this project.

Traffic and Safety

Passing Lanes should be considered along C.R. 636.

FHWA

It was recommended that the Department purchase right-of-way for future interchange at U.S. 41.

Environmental

It as mentioned that Pumpkinvine Creek could possibly contain archaeological sites. The projects from the Rockmart Bypass to north of Richland Creek would require an Environmental Assessment. The S.R. 113 relocation to Emerson would require a Categorical Exclusion. It was also recommended that project FR-179-1(10) be extended north to S.R. 61 to tie into a proposed five lane section. A public hearing would be held in late Spring.

JDQ/cdm

PRELIMINARY COST ESTIMATE

OFFICE OF ENVIRONMENT/LOCATION

P.I. NO: 621430/621435

REVISED: _

PROJECT NO: FR-179-1(8)/BRF-179-1(9)

REVISED: _

PROJECT NAME: S.R. 113 IMP

REVISED: _

COUNTY: POLK/BARTOW

DATE: 10-29-1990

PROJECT DESCRIPTION: TAYLORSVILLE TO C.R. 31 IN STILESBORO

TYPICAL SECTION LENGTH: 4.500 MILES

TYPICAL SECTION: RURAL WIDENING-2 TO 4 LANES WITH 44' GRASSED MEDIAN &
200' MIN R/W

EXISTING ROADWAY (If Applicable): S.R. 113

TRAFFIC:

INITIAL DESIGN YEAR: 1997

DAILY VOLUME (AADT): 7,600

FINAL DESIGN YEAR: 2017

DAILY VOLUME (AADT): 15,200

PROGRAMMING PROCESS PRE-PROGRAMMING PROCESS FEASIBILITY STUDY

COMMENTS: _

PREPARED BY: JOHN QUARLES

PROJECT COSTS

A. RIGHT-OF-WAY

1. PROPERTY (Land and Easements)	\$ 2,057,000
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2. DISPLACEMENTS	\$ 0
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3. OTHER COST	\$ 0
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SUBTOTAL	\$ 2,057,000

B. REIMBURSABLE UTILITIES

1. RAILROAD	\$ 0
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2. TRANSMISSION LINES	\$ 0
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3. SERVICES	\$ 0
<hr/>	
SUBTOTAL	\$ 0

C. MAJOR STRUCTURES

1. WALLS	\$ 0
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2. BRIDGE STREAM CROSSING	\$ 565,000
<hr/>	
NEW BRIDGES @ DRY CREEK & HILL CREEK (189X41.5X42), (135X41.5X42) EXISTING BRIDGE @ DRY CREEK - BHF-179-1(A) (135X41.5X42)	801,000 BHF-179-1(A)
3. BRIDGE OVER/UNDERPASS HILL CREEK BRIDGE REPLACEMENT UNDER PROJECT BHF-179-1(14)	132,000 BRF-179-1(A)
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4. BOX CULVERTS	\$ 300,000
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7X7, 6X3, 4X6, DBL 7X7, 4X6 - LENGTHEN	\$ 865,000
SUBTOTAL	\$ 1,101,000

D. GRADING AND DRAINAGE

1. EARTHWORK

a. UNCLASSIFIED EXCAVATION	\$ 600,000
250,000 CY @ \$2.00 + 25,000 CY @ \$4.00	
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b. BORROW EXCAVATION	\$ 0
0 CY @ \$0.00	
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2. DRAINAGE

a. MINOR DRAINAGE (INCLUDING CROSS DRAIN PIPES & LONGITUDINAL SYSTEM)	\$ 180,000
4.500 MILES @ \$40,000	
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b. CURB AND GUTTER	\$ 0
0 LF @ \$8.22	
<hr/>	
SUBTOTAL	\$ 780,000

E. BASE AND PAVING

1. GRADED AGGREGATE BASE	\$ 454,825
10.00" -- 39,688 T @ \$11.46	
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2. ASPHALT PAVING	
a. ASPHALTIC CONCRETE "E"	\$ 336,841
1.50" -- 10,454 T @ \$32.22	
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b. ASPHALTIC CONCRETE "B"	\$ 212,628
2.00" -- 7,066 T @ \$30.09	
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c. ASPHALTIC CONCRETE BASE	\$ 868,792
8.00" -- 29,814 T @ \$29.14	
<hr/>	
d. BITUMINOUS TACK COAT	\$ 12,312
15,200 G @ \$0.81	
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3. CONCRETE PAVING	\$ 0
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4. OTHER PAVING	\$ 2,688,540
RECONSTRUCT EXISTING S.R. 113 (2.3 MILES) PAVED SHOULDERS / COUNTY ROADS RELOCATIONS.	
<hr/>	
SUBTOTAL	\$ 4,573,937

F. LUMP ITEMS

1. TRAFFIC CONTROL	\$	<u>45,750</u>
<hr/>		
2. CLEARING AND GRUBBING	\$	<u>256,364</u>
55 ACRES @ \$4,700		
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3. LANDSCAPING	\$	<u>81,000</u>
4.500 MILES @ \$18,000		
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4. EROSION CONTROL	\$	<u>108,000</u>
4.500 MILES @ \$24,000		
<hr/>		
5. DETOURS (INCL. TEMP. BRIDGES)	\$	<u>0</u>
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	SUBTOTAL \$	<u>491,114</u>

G. MISCELLANEOUS

1. LIGHTING	\$	<u>0</u>
<hr/>		
2. SIGNING/STRIPING	\$	<u>135,000</u>
4.500 MILES @ \$30,000		
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3. GUARDRAIL	\$	<u>36,813</u>
3,000 LF @ \$9.00 + 14 ANCHORS @ \$701		
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4. OTHER	\$	<u>157,500</u>
4.500 MILES @ \$35,000		
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	SUBTOTAL \$	<u>329,313</u>

H. SPECIAL FEATURES	\$	<u>12,000</u>
ENG OFFICE		
<hr/>		

