ORIGINAL TO GENERAL FILES

D.O.T. 66

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE P. I. Nos. 611210 & 642210, Catoosa County
NH-STP-75-3(239) & STP-1111(10)
Bridge Replacement on I-75

OFFICE Preconstruction

DATE May 16, 2005

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

TO SEE DISTRIBUTION

SUBJECT NOTICE OF LOCATION AND DESIGN APPROVAL

Attached for your further handling is the approved Location and Design Report on the above subject project.

Also attached is the Notice of Location and Design Approval. This is authorization for the District to proceed with advertisement.

MBP/cj

Attachment

DISTRIBUTION:

David Mulling
Harvey Keepler
Jamie Simpson
Paul Liles
Keith Golden
Ken Thompson
Joe Palladi (file copy)
Babs Abubakari
Brent Story
Kent Sager
BOARD MEMBER

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE	NH-STP-75-3(239) & STP-1111(10) Catoosa P. I. # 611210 & 642210	OFFICE	Road Design
		DATE	May 10, 2005
FROM	Brent A. Story, P.E., State Road & Airport Design Engineer		
TO	Margaret B. Pirkle, P.E., Assistant Director of Preconstruction		

SUBJECT **Request for Location and Design Approval**

Description and Project Proposal: Project NH-STP-75-3 (239) consists of replacing the I-75 bridges over SR 146/Cloud Springs Road in Catoosa County to accommodate an 8-lane section on I-75 and span 7 lanes on SR 146 – 2 lanes in each direction with dual left turn lanes to the northbound ramp to I-75 and one left turn lane to the southbound ramp to I-75. The project length is 0.341 miles of I-75 at the Cloud Springs Road Interchange. The existing right of way on the project is 300 feet wide. It will add one 12-foot travel lane in each direction on I-75 and a 12-foot paved median with a 2.4 feet wide concrete barrier wall. It will widen SR 146 from an existing two-lane facility to a four-lane facility with a 20–foot raised median with turn lanes. This project is regionally significant in that it provides access to and between the SR 146/I-75 interchange and US 41/SR 3, which is a major north-south arterial route leading into Chattanooga from the Georgia part of the Chattanooga urbanized area.

The proposed four-lane bridge is 153.75 feet wide and 225 feet long. The bridge consists of one-41 ft and one-46 ft type II PSC beam span with 72" bulb tee Fascia and one-138 ft type PSC beam span with 72" bulb tee Fascia, for a total length of 225 feet. The proposed bents will be built at 70° - 12' - 35.3" to the centerline.

Project STP-1111 (10) consists of the widening and reconstruction of SR 146/Cloud Springs Road just east of the I-75 northbound on-ramp to US 41/SR 3 for a total length of 0.51 mile. The construction will provide four–12 foot travel lanes (two in each direction) separated by a 20-foot raised median, with two median openings. Curb and gutter with 5 foot sidewalks are proposed for the entire length of the project. Additionally, a retaining wall structure is proposed along the eastbound travel lane of SR 146. This project ties into project NH-STP-75-3 (239) and must be built concurrently.

Concept Approval Date: NH-STP-75-3 (239) concept was approved on December 8, 2000, and for project STP-1111 (10) its concept was approved on November 16, 2000.

Concept Update: There are no updates to report, and there are no concept revisions for these two projects that need to be reviewed at this time.

Environmental Assessment and Reassessment Approval Date: The two projects were cleared together environmentally with a Categorical Exclusion on July 22, 2004.

Public Involvement: The Office of Environment/Location conducted a Public Hearing for both of the subject projects.

- Hearing Results:
  - The Public Hearing was held from 4:00-7:00 p.m. on February 8, 2001, at the Catoosa County Courthouse Annex in Ringgold Georgia. Most of the attendees were in favor of the improvements that these two projects would provide.
  - Three – Opposed, 12 - In Support, and one - Conditional
  - A total of 16 comments were received during the ten-day comment period, and
  - There were 55 people in attendance including three Catoosa County Commissioners.
  - There were no major changes made as a result of the comments received at this public hearing.

Consistency with Approved Planning:
The design description as presented herein and submitted for approval is consistent with the approved Concept Report.

Recommendations: This Office recommends that the location and design for the project be approved and that the attached Notice be approved for advertising.

BAS:MS:ss

Attachments:

- **Sketch Map**
- **Cost Estimate**
- **Notice of Location and Design Approval**

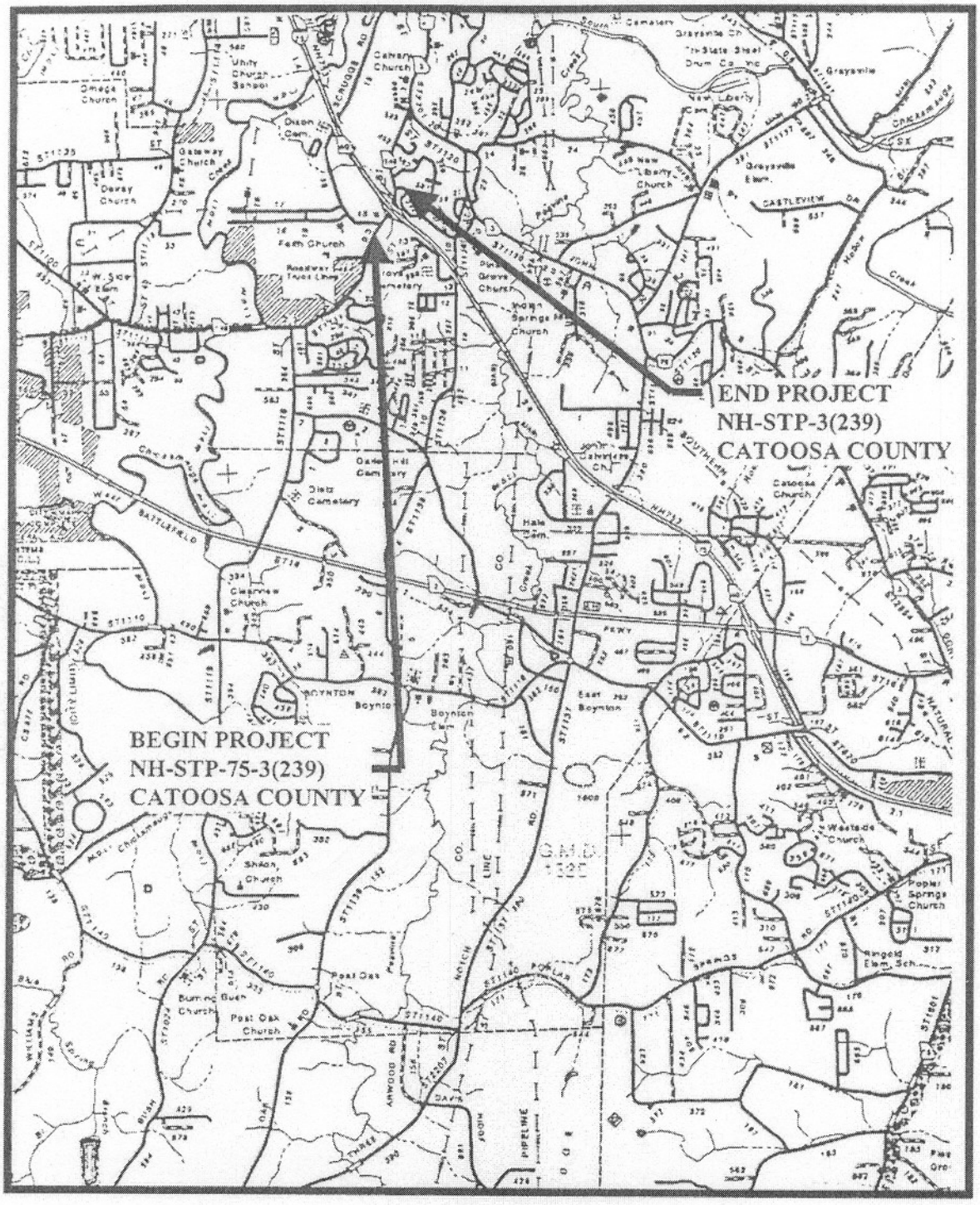
RECOMMEDED

Buddy Gratton, P.E., Director of Preconstruction — Date 5/11/05

APPROVED

David E. Studstill, P.E., Chief Engineer — Date 5/13/05

PROJECT MAP - Project No. : STP-75-3(239)



MAJOR STRUCTURES

Note! All distances are in feet

Bridges: Stream Crossings & Grade Separations

NO	LOCATION	QTY	CROSSING TYPE	WIDTH	LENGTH	UNIT COST	TOTAL
1	123+15 to 125+40	1	Roadway-Widen	158.00	225.0	145.00	5,155,000
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							

Bridge Culverts

NO	LOCATION	TYPE / W x H / FILL	LENGTH	UNIT COST	TOTAL
1					
2					
3					
4					
5					
6					
7					
8					

Walls

NO	LOCATION	TYPE	HEIGHT	LENGTH	UNIT COST	TOTAL
1						
2						
3						
4						
5						
6						

MAJOR STRUCTURES SUBTOTAL $ 5,155,000

Typical Section

Rural Widening: 3 To 4-Lanes with 14 ft Flush Median

Typical Section Length 0.10 Miles Right-of-Way Width 100 Feet

GRADING AND DRAINAGE

	QUANTITY		UNIT COST	TOTAL
1. EARTHWORK				
a. Unclassified Excavation Soil	14,312	CY	5.69	81,000
b. Unclassified Excavation Rock		CY		
c. Borrow Excavation	3,127	CY	4.81	15,000
2. MINOR DRAINAGE	0.10	MI	79,076	8,000
GRADING AND DRAINAGE SUBTOTAL				$104,000

BASE AND PAVING

	THICKNESS and SPREAD RATE	QUANTITY		UNIT COST	TOTAL
1. GRADED AGGREGATE BASE	10"	1,280	TN	22.51	29,000
2. ASPHALT PAVING					
a. Asph Conc 9.5 mm Superpave	1 1/2" (165 LB/SY)	393	TN	41.27	16,000
b. Asph Conc 19 mm Superpave	3" (330 LB/SY)	441	TN	52.15	23,000
c. Asph Conc 25 mm Superpave	4" (440 LB/SY)	345	TN	46.16	16,000
d. Bituminous Tack Coat		314	GL	1.52	
3. CONCRETE PAVING					
a. Curb and Gutter			LF		
b. Miscellaneous		0.10	MI	5,844	1,000
4. OTHER PAVING					9,000
BASE AND PAVING SUBTOTAL					$94,000

LUMP ITEMS

	QUANTITY		UNIT COST	TOTAL
1. TRAFFIC CONTROL	0.10	MI	59,304	6,000
2. CLEARING AND GRUBBING	1.21	AC	6,000	7,000
3. EROSION CONTROL	0.10	MI	102,943	10,000
4. SIGNING & MARKING	0.10	MI	30,820	3,000
5. MISCELLANEOUS	0.10	MI	43,669	4,000
LUMP ITEM SUBTOTAL				$30,000

MISCELLANEOUS PROJECT ITEMS

	QUANTITY		UNIT COST	TOTAL
1. GUARDRAIL	2,775	LF	14.59	40,000
2. GUARDRAIL ANCHORS	4	EA	466.96	2,000
3. DETOURS		MI	349,081	
4. SPECIAL FEATURES				
MISCELLANEOUS SUBTOTAL				$42,000

Typical Section

Rural Widening: 3 To 4-Lanes with 14 ft Flush Median

Typical Section Length 0.10 **Miles** **Right-of-Way Width** 100 **Feet**

GRADING AND DRAINAGE

	QUANTITY		UNIT COST	TOTAL
1. EARTHWORK				
a. Unclassified Excavation Soil		CY		
b. Unclassified Excavation Rock		CY		
c. Borrow Excavation		CY		
2. MINOR DRAINAGE	0.10	MI	79,076	8,000
GRADING AND DRAINAGE SUBTOTAL				$8,000

BASE AND PAVING

	THICKNESS and SPREAD RATE	QUANTITY		UNIT COST	TOTAL
1. GRADED AGGREGATE BASE	10"	1,628	TN	22.51	37,000
2. ASPHALT PAVING					
a. Asph Conc 9.5 mm Superpave	1 1/2" (165 LB/SY)	489	TN	41.27	20,000
b. Asph Conc 19 mm Superpave	3" (330 LB/SY)	632	TN	52.15	33,000
c. Asph Conc 25 mm Superpave	4" (440 LB/SY)	345	TN	46.16	16,000
d. Bituminous Tack Coat		390	GL	1.52	1,000
3. CONCRETE PAVING					
a. Curb and Gutter			LF		
b. Miscellaneous		0.10	MI	5,844	1,000
4. OTHER PAVING					11,000
BASE AND PAVING SUBTOTAL					$119,000

LUMP ITEMS

	QUANTITY		UNIT COST	TOTAL
1. TRAFFIC CONTROL	0.10	MI	59,304	6,000
2. CLEARING AND GRUBBING	1.21	AC	6,000	7,000
3. EROSION CONTROL	0.10	MI	102,943	10,000
4. SIGNING & MARKING	0.10	MI	30,820	3,000
5. MISCELLANEOUS	0.10	MI	43,669	4,000
LUMP ITEM SUBTOTAL				$30,000

Typical Section

Rural Widening: 3 To 4-Lanes with 14 ft Flush Median

Typical Section Length 0.16 Miles Right-of-Way Width 100 Feet

GRADING AND DRAINAGE

	QUANTITY		UNIT COST	TOTAL
1. EARTHWORK				
a. Unclassified Excavation Soil		CY		
b. Unclassified Excavation Rock		CY		
c. Borrow Excavation		CY		
2. MINOR DRAINAGE	0.16	MI	79,076	8,000
GRADING AND DRAINAGE SUBTOTAL				$8,000

BASE AND PAVING

	THICKNESS and SPREAD RATE	QUANTITY		UNIT COST	TOTAL
1. GRADED AGGREGATE BASE	10"	2,183	TN	22.51	49,000
2. ASPHALT PAVING					
a. Asph Conc 9.5 mm Superpave	1 1/2" (165 LB/SY)	666	TN	41.27	27,000
b. Asph Conc 19 mm Superpave	3" (330 LB/SY)	779	TN	52.15	41,000
c. Asph Conc 25 mm Superpave	4" (440 LB/SY)	552	TN	46.16	25,000
d. Bituminous Tack Coat		531	GL	1.52	1,000
3. CONCRETE PAVING					
a. Curb and Gutter			LF		
b. Miscellaneous		0.16	MI	5,844	1,000
4. OTHER PAVING					14,000
BASE AND PAVING SUBTOTAL					$158,000

LUMP ITEMS

	QUANTITY		UNIT COST	TOTAL
1. TRAFFIC CONTROL	0.16	MI	59,304	9,000
2. CLEARING AND GRUBBING	1.94	AC	6,000	12,000
3. EROSION CONTROL	0.16	MI	102,943	16,000
4. SIGNING & MARKING	0.16	MI	30,820	5,000
5. MISCELLANEOUS	0.16	MI	43,669	7,000
LUMP ITEM SUBTOTAL				$49,000

Typical Section

Rural Widening: 3 To 4-Lanes with 14 ft Flush Median

Typical Section Length 0.10 **Miles** **Right-of-Way Width** 100 **Feet**

GRADING AND DRAINAGE

	QUANTITY		UNIT COST	TOTAL
1. EARTHWORK				
a. Unclassified Excavation Soil		CY		
b. Unclassified Excavation Rock		CY		
c. Borrow Excavation		CY		
2. MINOR DRAINAGE	0.10	MI	79,076	8,000
GRADING AND DRAINAGE SUBTOTAL				$8,000

BASE AND PAVING

	THICKNESS and SPREAD RATE	QUANTITY		UNIT COST	TOTAL
1. GRADED AGGREGATE BASE	10"	1,364	TN	22.51	31,000
2. ASPHALT PAVING					
a. Asph Conc 9.5 mm Superpave	1 1/2" (165 LB/SY)	416	TN	41.27	17,000
b. Asph Conc 19 mm Superpave	3" (330 LB/SY)	487	TN	52.15	25,000
c. Asph Conc 25 mm Superpave	4" (440 LB/SY)	345	TN	46.16	16,000
d. Bituminous Tack Coat		332	GL	1.52	1,000
3. CONCRETE PAVING					
a. Curb and Gutter			LF		
b. Miscellaneous		0.10	MI	5,844	1,000
4. OTHER PAVING					9,000
BASE AND PAVING SUBTOTAL					$100,000

LUMP ITEMS

	QUANTITY		UNIT COST	TOTAL
1. TRAFFIC CONTROL	0.10	MI	59,304	6,000
2. CLEARING AND GRUBBING	1.21	AC	6,000	7,000
3. EROSION CONTROL	0.10	MI	102,943	10,000
4. SIGNING & MARKING	0.10	MI	30,820	3,000
5. MISCELLANEOUS	0.10	MI	43,669	4,000
LUMP ITEM SUBTOTAL				$30,000

Typical Section

Rural Widening: 3 To 4-Lanes with 14 ft Flush Median

Typical Section Length 0.01 **Miles** **Right-of-Way Width** 100 **Feet**

GRADING AND DRAINAGE

	QUANTITY		UNIT COST	TOTAL
1. EARTHWORK				
a. Unclassified Excavation Soil		CY		
b. Unclassified Excavation Rock		CY		
c. Borrow Excavation		CY		
2. MINOR DRAINAGE	0.01	MI	79,076	8,000
GRADING AND DRAINAGE SUBTOTAL				$8,000

BASE AND PAVING

	THICKNESS and SPREAD RATE	QUANTITY		UNIT COST	TOTAL
1. GRADED AGGREGATE BASE	10"	164	TN	22.51	4,000
2. ASPHALT PAVING					
a. Asph Conc 9.5 mm Superpave	1 1/2" (165 LB/SY)	50	TN	41.27	2,000
b. Asph Conc 19 mm Superpave	3" (330 LB/SY)	58	TN	52.15	3,000
c. Asph Conc 25 mm Superpave	4" (440 LB/SY)	41	TN	46.16	2,000
d. Bituminous Tack Coat		40	GL	1.52	
3. CONCRETE PAVING					
a. Curb and Gutter			LF		
b. Miscellaneous		0.01	MI	5,844	
4. OTHER PAVING					1,000
BASE AND PAVING SUBTOTAL					$12,000

LUMP ITEMS

	QUANTITY		UNIT COST	TOTAL
1. TRAFFIC CONTROL	0.01	MI	59,304	1,000
2. CLEARING AND GRUBBING	0.15	AC	6,000	1,000
3. EROSION CONTROL	0.01	MI	102,943	1,000
4. SIGNING & MARKING	0.01	MI	30,820	
5. MISCELLANEOUS	0.01	MI	43,669	1,000
LUMP ITEM SUBTOTAL				$4,000

ESTIMATE SUMMARY

TYPICAL SECTION	COST (per mile)
1. Rural Widening: 3 To 4-Lanes with 14 ft Flush Median	$ 2,280,000
2. Rural Widening: 3 To 4-Lanes with 14 ft Flush Median	$ 1,570,000
3. Rural Widening: 3 To 4-Lanes with 14 ft Flush Median	$ 1,344,000
4. Rural Widening: 3 To 4-Lanes with 14 ft Flush Median	$ 1,380,000
5. Rural Widening: 3 To 4-Lanes with 14 ft Flush Median	$ 2,000,000

PROJECT COST

A. MAJOR STRUCTURES	$	5,155,000
B. GRADING AND DRAINAGE	$	136,000
C. BASE AND PAVING	$	483,000
D. LUMP ITEMS	$	143,000
E. MISCELLANEOUS	$	42,000
SUBTOTAL CONSTRUCTION COST	$	5,959,000
ENGINEERING & CONTINGENCIES (10%)	$	596,000
INFLATION 5 yr(s) @ 4 % per yr	$	1,420,000
GRAND TOTAL CONSTRUCTION COST	$	7,975,000

CONCEPT COST ESTIMATE

Office of Road Design - G.O.

February 17, 2005 9:53 AM

County(s) Catoosa

PI Number 611210 **Project Number** NH-STP-75-3(239)

Project Name I-75 AT SR146/CLOUD SPRING ROAD INTERCH **Project Length** 1.99 **Miles**

Project Description

I-75 AT SR146/CLOUD SPRING ROAD INTERCHANGE RECONSTRUCTION

Existing Roadway

sr146

Comments

TRAFFIC:

Current Design Year	2006	**Daily Volume (AADT)**	7,012
Future Design Year	2026	**Daily Volume (AADT)**	14,025

[X] **Concept Estimate** [ ] **Feasibility Estimate**

Typical Section(s) Used in Estimate	Typical Section Length	
Urban Widening: 3 To 4-Lanes with 14 ft Flush Median	0.26	Miles
		Miles
		Miles
		Miles
		Miles
		Miles

Prepared By Chandria L. Brown

Typical Section

Urban Widening: 3 To 4-Lanes with 14 ft Flush Median

Typical Section Length 0.26 **Miles** **Right-of-Way Width** 90 **Feet**

GRADING AND DRAINAGE

	QUANTITY		UNIT COST	TOTAL
1. EARTHWORK				
a. Unclassified Excavation Soil	22,087	CY	5.69	126,000
b. Unclassified Excavation Rock		CY		
c. Borrow Excavation		CY		
2. MINOR DRAINAGE	0.26	MI	463,057	120,000
GRADING AND DRAINAGE SUBTOTAL				$246,000

BASE AND PAVING

	THICKNESS and SPREAD RATE	QUANTITY		UNIT COST	TOTAL
1. GRADED AGGREGATE BASE	10"	2,448	TN	22.51	55,000
2. ASPHALT PAVING					
a. Asph Conc 9.5 mm Superpave	1 1/2" (165 LB/SY)	780	TN	41.27	32,000
b. Asph Conc 19 mm Superpave	3" (330 LB/SY)	662	TN	52.15	35,000
c. Asph Conc 25 mm Superpave	4" (440 LB/SY)	898	TN	46.16	41,000
d. Bituminous Tack Coat		622	GL	1.52	1,000
3. CONCRETE PAVING					
a. Curb and Gutter		2,746	LF	21.14	58,000
b. Miscellaneous		0.26	MI	50,507	13,000
4. OTHER PAVING					24,000
BASE AND PAVING SUBTOTAL					$259,000

LUMP ITEMS

	QUANTITY		UNIT COST	TOTAL
1. TRAFFIC CONTROL	0.26	MI	105,130	27,000
2. CLEARING AND GRUBBING	2.84	AC	6,000	17,000
3. EROSION CONTROL	0.26	MI	86,050	22,000
4. SIGNING & MARKING	0.26	MI	57,620	15,000
5. MISCELLANEOUS	0.26	MI	106,121	28,000
LUMP ITEM SUBTOTAL				$109,000

MISCELLANEOUS PROJECT ITEMS

	QUANTITY		UNIT COST	TOTAL
1. GUARDRAIL		LF		
2. GUARDRAIL ANCHORS		EA		
3. DETOURS		MI	349,081	
4. SPECIAL FEATURES				
MISCELLANEOUS SUBTOTAL				$0

ESTIMATE SUMMARY

TYPICAL SECTION		COST (per mile)
1. Urban Widening: 3 To 4-Lanes with 14 ft Flush Median	$	2,362,000

PROJECT COST		
A. MAJOR STRUCTURES		
B. GRADING AND DRAINAGE	$	246,000
C. BASE AND PAVING	$	259,000
D. LUMP ITEMS	$	109,000
E. MISCELLANEOUS	$	-
SUBTOTAL CONSTRUCTION COST	$	614,000
ENGINEERING & CONTINGENCIES (10%)	$	61,000
INFLATION 5 yr(s) @ 4 % per yr	$	146,000
GRAND TOTAL CONSTRUCTION COST	$	821,000

CONCEPT COST ESTIMATE

Office of Road Design - G.O.

February 16, 2005 2:54 PM

County(s) Catoosa

PI Number 611210 **Project Number** NH-STP-75-3(239)

Project Name I-75 AT SR146/CLOUD SPRINGS ROAD INTERC **Project Length** 1.99 **Miles**

Project Description

I-75 AT SR146/CLOUD SPRING ROAD INTERCHANGE RECONSTRUCTION

Existing Roadway

RAMPS

Comments

TRAFFIC:

Current Design Year	2006	**Daily Volume (AADT)**	7,012
Future Design Year	2026	**Daily Volume (AADT)**	14,025

[X] **Concept Estimate** [ ] **Feasibility Estimate**

Typical Section(s) Used in Estimate	Typical Section Length	
Rural New Location: 4-Lanes with 14 ft Flush Median	0.10	Miles
Rural New Location: 2-Lanes with 24 ft Pavement	0.19	Miles
Rural Widening: 2 To 3-Lanes with 34 ft Pavement (1-Way Pairs)	0.22	Miles
Rural New Location: 2-Lanes with 24 ft Pavement	0.20	Miles
		Miles
		Miles

Prepared By Chandria L. Brown

Typical Section

Rural New Location: 4-Lanes with 14 ft Flush Median

Typical Section Length 0.10 **Miles** **Right-of-Way Width** 150 **Feet**

GRADING AND DRAINAGE

	QUANTITY		UNIT COST	TOTAL
1. EARTHWORK				
a. Unclassified Excavation Soil	2,955	CY	5.69	17,000
b. Unclassified Excavation Rock		CY		
c. Borrow Excavation		CY		
2. MINOR DRAINAGE	0.10	MI	92,798	9,000
GRADING AND DRAINAGE SUBTOTAL				$26,000

BASE AND PAVING

	THICKNESS and SPREAD RATE	QUANTITY		UNIT COST	TOTAL
1. GRADED AGGREGATE BASE	10"	2,598	TN	22.51	58,000
2. ASPHALT PAVING					
a. Asph Conc 9.5 mm Superpave	1 1/2" (165 LB/SY)	397	TN	41.27	16,000
b. Asph Conc 19 mm Superpave	3" (330 LB/SY)	801	TN	52.15	42,000
c. Asph Conc 25 mm Superpave	4" (440 LB/SY)	823	TN	46.16	38,000
d. Bituminous Tack Coat		538	GL	1.52	1,000
3. CONCRETE PAVING					
a. Curb and Gutter			LF		
b. Miscellaneous		0.10	MI	39,622	4,000
4. OTHER PAVING					16,000
BASE AND PAVING SUBTOTAL					$175,000

LUMP ITEMS

	QUANTITY		UNIT COST	TOTAL
1. TRAFFIC CONTROL	0.10	MI	27,630	3,000
2. CLEARING AND GRUBBING	1.82	AC	6,000	11,000
3. EROSION CONTROL	0.10	MI	151,127	15,000
4. SIGNING & MARKING	0.10	MI	29,672	3,000
5. MISCELLANEOUS	0.10	MI	56,932	6,000
LUMP ITEM SUBTOTAL				$38,000

MISCELLANEOUS PROJECT ITEMS

	QUANTITY		UNIT COST	TOTAL
1. GUARDRAIL		LF		
2. GUARDRAIL ANCHORS		EA		
3. DETOURS		MI	349,081	
4. SPECIAL FEATURES				
MISCELLANEOUS SUBTOTAL				$0

Typical Section

Rural New Location: 2-Lanes with 24 ft Pavement

Typical Section Length 0.19 **Miles** **Right-of-Way Width** 100 **Feet**

GRADING AND DRAINAGE

	QUANTITY		UNIT COST	TOTAL
1. EARTHWORK				
a. Unclassified Excavation Soil		CY		
b. Unclassified Excavation Rock		CY		
c. Borrow Excavation		CY		
2. MINOR DRAINAGE	0.19	MI	42,006	4,000
GRADING AND DRAINAGE SUBTOTAL				$4,000

BASE AND PAVING

	THICKNESS and SPREAD RATE	QUANTITY		UNIT COST	TOTAL
1. GRADED AGGREGATE BASE	10"	2,320	TN	22.51	52,000
2. ASPHALT PAVING					
a. Asph Conc 9.5 mm Superpave	1 1/2" (165 LB/SY)	405	TN	41.27	17,000
b. Asph Conc 19 mm Superpave	3" (330 LB/SY)	815	TN	52.15	42,000
c. Asph Conc 25 mm Superpave	4" (440 LB/SY)	605	TN	46.16	28,000
d. Bituminous Tack Coat		485	GL	1.52	1,000
3. CONCRETE PAVING					
a. Curb and Gutter			LF		
b. Miscellaneous		0.19	MI	15,338	3,000
4. OTHER PAVING					14,000
BASE AND PAVING SUBTOTAL					$157,000

LUMP ITEMS

	QUANTITY		UNIT COST	TOTAL
1. TRAFFIC CONTROL	0.19	MI	10,696	2,000
2. CLEARING AND GRUBBING	2.30	AC	6,000	14,000
3. EROSION CONTROL	0.19	MI	151,127	29,000
4. SIGNING & MARKING	0.19	MI	7,793	1,000
5. MISCELLANEOUS	0.19	MI	22,038	4,000
LUMP ITEM SUBTOTAL				$50,000

Typical Section

Rural Widening: 2 To 3-Lanes with 34 ft Pavement (1-Way Pairs)

Typical Section Length 0.22 **Miles** **Right-of-Way Width** 100 **Feet**

GRADING AND DRAINAGE

	QUANTITY		UNIT COST	TOTAL
1. EARTHWORK				
a. Unclassified Excavation Soil		CY		
b. Unclassified Excavation Rock		CY		
c. Borrow Excavation		CY		
2. MINOR DRAINAGE	0.22	MI	46,272	5,000
GRADING AND DRAINAGE SUBTOTAL				$5,000

BASE AND PAVING

	THICKNESS and SPREAD RATE	QUANTITY		UNIT COST	TOTAL
1. GRADED AGGREGATE BASE	10"	1,392	TN	22.51	31,000
2. ASPHALT PAVING					
a. Asph Conc 9.5 mm Superpave	1 1/2" (165 LB/SY)	619	TN	41.27	26,000
b. Asph Conc 19 mm Superpave	3" (330 LB/SY)	543	TN	52.15	28,000
c. Asph Conc 25 mm Superpave	4" (440 LB/SY)	292	TN	46.16	13,000
d. Bituminous Tack Coat		387	GL	1.52	1,000
3. CONCRETE PAVING					
a. Curb and Gutter			LF		
b. Miscellaneous		0.22	MI	2,248	
4. OTHER PAVING					10,000
BASE AND PAVING SUBTOTAL					$109,000

LUMP ITEMS

	QUANTITY		UNIT COST	TOTAL
1. TRAFFIC CONTROL	0.22	MI	22,957	5,000
2. CLEARING AND GRUBBING	2.67	AC	6,000	16,000
3. EROSION CONTROL	0.22	MI	79,095	17,000
4. SIGNING & MARKING	0.22	MI	6,816	1,000
5. MISCELLANEOUS	0.22	MI	23,947	5,000
LUMP ITEM SUBTOTAL				$44,000

Typical Section

Rural New Location: 2-Lanes with 24 ft Pavement

Typical Section Length 0.20 **Miles** **Right-of-Way Width** 100 **Feet**

GRADING AND DRAINAGE

	QUANTITY		UNIT COST	TOTAL
1. EARTHWORK				
a. Unclassified Excavation Soil		CY		
b. Unclassified Excavation Rock		CY		
c. Borrow Excavation		CY		
2. MINOR DRAINAGE	0.20	MI	42,006	4,000
GRADING AND DRAINAGE SUBTOTAL				$4,000

BASE AND PAVING

	THICKNESS and SPREAD RATE	QUANTITY		UNIT COST	TOTAL
1. GRADED AGGREGATE BASE	10"	2,443	TN	22.51	55,000
2. ASPHALT PAVING					
a. Asph Conc 9.5 mm Superpave	1 1/2" (165 LB/SY)	426	TN	41.27	18,000
b. Asph Conc 19 mm Superpave	3" (330 LB/SY)	857	TN	52.15	45,000
c. Asph Conc 25 mm Superpave	4" (440 LB/SY)	637	TN	46.16	29,000
d. Bituminous Tack Coat		511	GL	1.52	1,000
3. CONCRETE PAVING					
a. Curb and Gutter			LF		
b. Miscellaneous		0.20	MI	15,338	3,000
4. OTHER PAVING					15,000
BASE AND PAVING SUBTOTAL					$166,000

LUMP ITEMS

	QUANTITY		UNIT COST	TOTAL
1. TRAFFIC CONTROL	0.20	MI	10,696	2,000
2. CLEARING AND GRUBBING	2.42	AC	6,000	15,000
3. EROSION CONTROL	0.20	MI	151,127	30,000
4. SIGNING & MARKING	0.20	MI	7,793	2,000
5. MISCELLANEOUS	0.20	MI	22,038	4,000
LUMP ITEM SUBTOTAL				$53,000

ESTIMATE SUMMARY

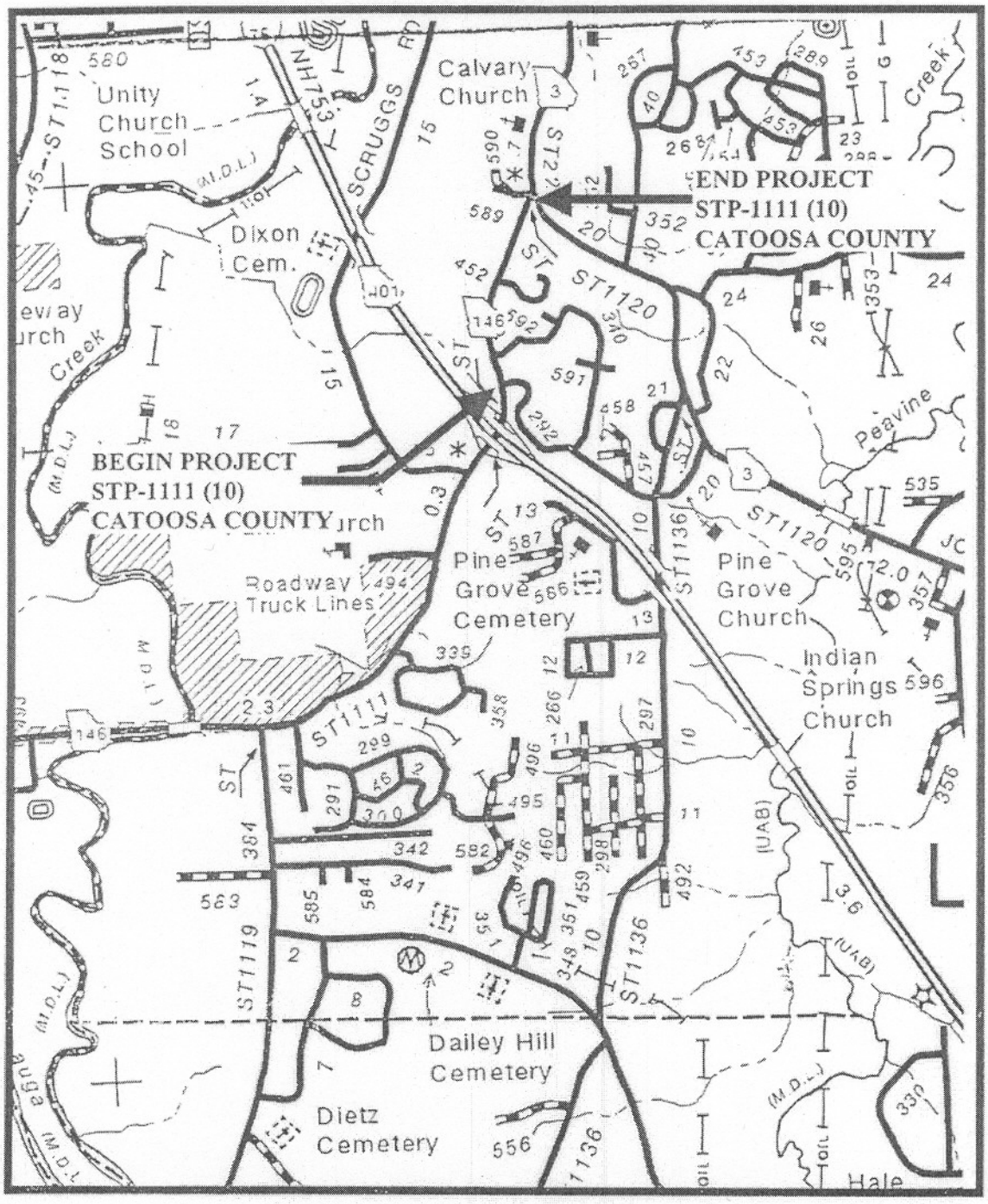
TYPICAL SECTION		COST (per mile)
1. Rural New Location: 4-Lanes with 14 ft Flush Median	$	2,390,000
2. Rural New Location: 2-Lanes with 24 ft Pavement	$	1,111,000
3. Rural Widening: 2 To 3-Lanes with 34 ft Pavement (1-Way Pairs)	$	718,000
4. Rural New Location: 2-Lanes with 24 ft Pavement	$	1,115,000

PROJECT COST		
A. MAJOR STRUCTURES		
B. GRADING AND DRAINAGE	$	39,000
C. BASE AND PAVING	$	607,000
D. LUMP ITEMS	$	185,000
E. MISCELLANEOUS	$	-
SUBTOTAL CONSTRUCTION COST	$	831,000
ENGINEERING & CONTINGENCIES (10%)	$	83,000
INFLATION 5 yr(s) @ 4 % per yr	$	198,000
GRAND TOTAL CONSTRUCTION COST	$	1,112,000

13-Oct	DETAIL COST ESTIMATE FOR PROJECT NH-STP-75-3(239) CATOOSA COUNTY P.I. NO. 611210				
ITEM NO.	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	TOTAL
	SIGNING, MARKING & SIGNALS				
610-6515	REM HIGHWAY SIGN, STD	EA	2	$ 49.76	$ 99.52
610-6520	REM HIGHWAY SIGN, SPCL ROADSIDE	EA	1	$ 1,394.76	$ 1,394.76
611-5360	RESET HIGHWAY SIGN	EA	2	$ 119.16	$ 238.32
633-3500	REMOUNT UNMODIFIED HWY SIGN, SPCL ROADSIDE	EA	1	$ 311.17	$ 311.17
636-1020	HIGHWAY SIGNS, TP 1 MATL-REFL SHEETING, TP 3	SF	128	$ 12.23	$ 1,565.44
636-1029	HIGHWAY SIGNS, TP 2 MATL-REFL SHEETING, TP 3	SF	128	$ 25.66	$ 3,284.48
636-1031	HIGHWAY SIGNS, TP 1 MATL-REFL SHEETING, TP 6	SF	31	$ 16.09	$ 498.79
636-1032	HIGHWAY SIGNS, TP 2 MATL-REFL SHEETING, TP 6	SF	27	$ 26.92	$ 724.69
636-2070	GALV STEEL POSTS, TP 7	LF	409	$ 6.15	$ 2,515.35
639-2002	STEEL WIRE STRAIN CABLE, 3/8 IN	LF	631	$ 2.32	$ 1,463.92
639-4004	STRAIN POLE, TP IV	EA	8	$ 3,947.17	$ 31,577.36
647-1000	TRAFFIC SIGNAL INSTALLATION NO. 1	LUMP	LUMP	$ 53,500.00	$ 38,008.14
647-1000	TRAFFIC SIGNAL INSTALLATION NO. 2	LUMP	LUMP	$ 46,500.00	$ 38,008.14
647-2120	PULL BOX, PB-2	EA	19	$ 378.76	$ 7,196.44
647-2150	PULLBOX, PB-5	EA	2	$ 911.45	$ 1,822.90
652-8151	SKIP POLYUREA TRAFFIC STRIPE, 5", WHITE	GLM	2	$ 1,700.00	$ 3,400.00
652-8255	SOLID POLYUREA TRAFFIC STRIPE, 10", WHITE	LF	1400	$ 12.53	$ 17,542.00
653-0110	THERMOPLASTIC PVMT MARKING, ARROW, TP1	EA	8	$ 47.05	$ 376.40
653-0120	THERMOPLASTIC PVMT MARKING, ARROW, TP2	EA	31	$ 53.09	$ 1,645.79
653-0210	THERMOPLASTIC PVMT MARKING, WORD, TP 1	EA	13	$ 80.13	$ 1,041.69
653-1501	THERMOPLASTIC SOLID TRAF STRIPE, 5 IN, WHITE	LF	3800	$ 0.21	$ 798.00
653-1502	THERMOPLASTIC SOLID TRAF STRIPE, 5 IN, YELLOW	LF	1800	$ 0.21	$ 378.00
653-1704	THERMOPLASTIC SOLID TRAF STRIPE, 24 IN, WHITE	LF	230	$ 3.18	$ 731.40
653-1804	THERMOPLASTIC SOLID TRAF STRIPE, 8 IN, WHITE	LF	1160	$ 1.27	$ 1,473.20
653-3501	THERMOPLASTIC SKIP TRAF STRIPE, 5 IN, WHITE	GLF	2200	$ 0.11	$ 242.00
653-6004	THERMOPLASTIC TRAF STRIPING, WHITE	SY	817	$ 2.36	$ 1,928.12
654-1003	RAISED PVMT MARKERS TP 3	EA	421	$ 3.57	$ 1,502.97
657-9110	WET REFLECTIVE PREFORMED SOLID PAVEMENT MARKINGS, 5 IN, WHITE	LF	7900	$ 2.63	$ 20,777.00
657-9111	WET REFLECTIVE PREFORMED SOLID PAVEMENT MARKINGS, 5 IN, YELLOW	LF	7600	$ 2.63	$ 19,988.00
	Page 1				DETAIL MET

PAGE 2	DETAIL COST ESTIMATE FOR PROJECT NH-STP-75-3(239) CATOOSA COUNTY				
682-6222	CONDUIT, NONMETAL, TP 2, 2 IN	LF	250	$ 5.78	$ 1,445.00
682-6233	CONDUIT, NONMETAL, TP 3, 2 IN	LF	600	$ 2.95	$ 1,770.00
687-1000	TRAFFIC SIGNAL TIMING	LUMP	LUMP	$ 35,534.17	$ 35,534.17
935-0345	FIBER OPTIC MODEM/TRANSCEIVER	EA	2	$ 1,450.00	$ 2,900.00
935-1113	OUTSIDE PLANT FIBER OPTIC CABLE, LOOSE TUBE, SINGLE MODE, 24 FIBER	LF	540	$ 2.08	$ 1,123.20
935-1511	OUTSIDE PLANT FIBER OPTIC CABLE, DROP, SINGLE MODE, 6 FIBER	LF	45	$ 1.85	$ 83.25
935-3101	FIBER OPTIC CLOSURE, UNDERGROUND, 6 FIBER	EA	2	$ 555.63	$ 1,111.26
935-4010	FIBER OPTIC SPLICE, FUSION	EA	4	$ 37.01	$ 148.04
935-6562	EXTERNAL TRANSCEIVER, DROP AND REPEAT, 1310 SINGLE MODE (SIGNAL JOBS	EA	2	$ 1,548.03	$ 3,096.06
939-1162	FIBER OPTIC EXTERNAL TRANSCEIVER, DROP AND REPEAT, 1310	EA	2	$ 1,325.40	$ 1,228.16
939-1173	FIBER OPTIC EXTERNAL STAR TRANSCEIVER, 1310 SINGLE MODE	EA	2	$ 2,407.90	$ 4,815.80
939-8000	TESTING	LUMP	LUMP	$ 2,737.14	$ 2,737.14
939-8500	TRAINING	LUMP	LUMP	$ 7,844.07	$ 7,844.07
	DETAIL ESTIMATE TOTAL PROJECT COST=				$ 253,788.93

PROJECT MAP - Project No.: STP- 1111(10)



PROJECT NUMBER: STP- 1111(10)

CONCEPT COST ESTIMATE

Office of Road Design - G.O.

February 11, 2005 2:34 PM

County(s) Catoosa

PI Number 642210 **Project Number** STP-1111(10)

Project Name WIDENING OF SR146/CLOUD SPRINGS RD **Project Length** .51 **Miles**

Project Description

WIDENING OF SR146/CLOUD SPRINGS ROAD IN CATOOSA COUNTY FROM EAST OF I-75 NORTHBOUND

Existing Roadway

SR 146

Comments

TRAFFIC:

Current Design Year	2006	**Daily Volume (AADT)**	7,012
Future Design Year	2026	**Daily Volume (AADT)**	14,025

[X] **Concept Estimate** [ ] **Feasibility Estimate**

Typical Section(s) Used in Estimate	Typical Section Length
Rural Widening: 2 To 4-Lanes with 20 ft Raised Median Widen Symmetrical	0.50 Miles
	Miles
	Miles
	Miles
	Miles
	Miles

Prepared By Chandria L. Brown

Typical Section

Rural Widening: 2 To 4-Lanes with 20 ft Raised Median Widen Symmetrical

Typical Section Length 0.50 **Miles** **Right-of-Way Width** 126 **Feet**

GRADING AND DRAINAGE

	QUANTITY		UNIT COST	TOTAL
1. EARTHWORK				
a. Unclassified Excavation Soil	18,855	CY	5.69	107,000
b. Unclassified Excavation Rock		CY		
c. Borrow Excavation	76,134	CY	4.81	366,000
2. MINOR DRAINAGE	0.50	MI	138,412	69,000
GRADING AND DRAINAGE SUBTOTAL				$542,000

BASE AND PAVING

	THICKNESS and SPREAD RATE	QUANTITY		UNIT COST	TOTAL
1. GRADED AGGREGATE BASE	10"	8,496	TN	22.51	191,000
2. ASPHALT PAVING					
a. Asph Conc 9.5 mm Superpave	1 1/2" (165 LB/SY)	1,229	TN	41.27	51,000
b. Asph Conc 19 mm Superpave	3" (330 LB/SY)	2,446	TN	53.15	130,000
c. Asph Conc 25 mm Superpave	4" (440 LB/SY)	2,921	TN	46.16	135,000
d. Bituminous Tack Coat		1,755	GL	1.52	3,000
3. CONCRETE PAVING					
a. Curb and Gutter		8,354	LF	21.14	177,000
b. Miscellaneous		0.50	MI	30,232	15,000
4. OTHER PAVING					70,000
BASE AND PAVING SUBTOTAL					$772,000

LUMP ITEMS

	QUANTITY		UNIT COST	TOTAL
1. TRAFFIC CONTROL	0.50	MI	65,043	33,000
2. CLEARING AND GRUBBING	7.64	AC	6,000	46,000
3. EROSION CONTROL	0.50	MI	134,228	67,000
4. SIGNING & MARKING	0.50	MI	24,560	12,000
5. MISCELLANEOUS	0.50	MI	50,043	25,000
LUMP ITEM SUBTOTAL				$183,000

MISCELLANEOUS PROJECT ITEMS

	QUANTITY		UNIT COST	TOTAL
1. GUARDRAIL	2,900	LF	14.59	42,000
2. GUARDRAIL ANCHORS	25	EA	466.96	12,000
3. DETOURS		MI	349,081	
4. SPECIAL FEATURES				
MISCELLANEOUS SUBTOTAL				$54,000

ESTIMATE SUMMARY

TYPICAL SECTION		COST (per mile)
1. Rural Widening: 2 To 4-Lanes with 20 ft Raised Median Widen Symmetrical	$	2,994,000

PROJECT COST		
A. MAJOR STRUCTURES		
B. GRADING AND DRAINAGE	$	542,000
C. BASE AND PAVING	$	772,000
D. LUMP ITEMS	$	183,000
E. MISCELLANEOUS	$	54,000
SUBTOTAL CONSTRUCTION COST	$	1,551,000
ENGINEERING & CONTINGENCIES (10%)	$	155,000
INFLATION 5 yr(s) @ 4 % per yr	$	370,000
GRAND TOTAL CONSTRUCTION COST	$	2,076,000

Notice of Location and Design Approval

NH-STP-75-3 (239) & STP-1111 (10) Cattosa County
P. I. # 611210 & 642210

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 MAY 16, 2005

Project NH-STP-75-3 (239) length is 0.341 of a mile, and it consists of replacing the I-75 bridges over SR 146/Cloud Springs Road to accommodate an 8 lane section on I-75 and span 7 lanes of SR 146 – 2 lanes in each direction with dual left turn lanes to the northbound ramp to I-75 and one left turn lane to the southbound ramp. Project STP-1111 (10) consists of the widening and reconstruction of SR 146/Cloud Springs Road just east of the I-75 northbound on-ramp to US 41/SR 3 for a total length of 0.51 mile. The construction will provide four – 12 foot travel lanes (two in each direction), separated by a 20 foot raised median, with two median openings. The subject projects are located within Land Lots 35, 36, 37, 38, and 71 within Land District 28 in Catoosa County.

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

Devon Brooks
devon.brooks@dot.state.ga.us
1313 North Tibbs Road
Dalton, GA 30720
(706) 272-2211

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:

Mike Davidson, P.E.
Road & Airport Design
Mike.davidson@dot.state.ga.us
No. 2 Capitol Square, S.W.
Atlanta, GA 30334
(404) 656-5383

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