

D.O.T. 66

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE P. I. No. 0003161, Meriwether-Coweta Counties **OFFICE** Preconstruction
MSL-0003-00(161)
I-85 Widening **DATE** December 22, 2005

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

TO SEE DISTRIBUTION

SUBJECT APPROVED PROJECT CONCEPT REPORT

Attached for your files is the approval for subject project.

MBP/cj

Attachment

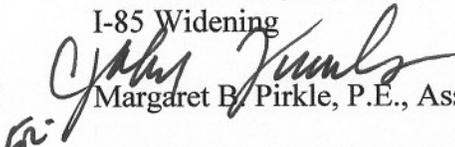
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**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

FILE P.I. No. 0003161, Meriwether-Coweta Counties **OFFICE** Preconstruction
MSL-0003-00(161)
I-85 Widening **DATE** June 27, 2005

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

TO  David E. Studstill, Jr., P.E., Chief Engineer

SUBJECT PROJECT CONCEPT REPORT

This project is the widening and reconstruction of I-85 beginning just north of Forest Road (MP 33.259) in Meriwether County to north of SR 34 (MP 46.914) in Coweta County for a total length of 13.65 miles. The existing roadway consists of two, 12' lanes in each direction divided by a variable width (64' - 88') depressed grassed median, 12'-14' (10-12' paved) outside shoulders and 10' (2' paved) inside shoulders on 400' of existing right-of-way. The existing major structures are:

<u>LOCATION</u>	<u>DIMENSIONS</u>	<u>SUFFICIENCY RATING</u>
I-85 over SR 14/CSX RR	SBL 307' x 58.6'	77.5
	NBL 307' x 54.3'	88.0
I-85 over Beth Church Road	NBL & SBL 151' x 42'	88.0
I-85 over CSX RR	SBL 183' x 58'	82.9
	NBL 183' x 50'	87.0
I-85 over US 29/US 27 Alt	NBL & SBL 272' x 42'	94.5
I-85 over Turkey Creek Road	NBL & SBL 144' x 42'	91.2
I-85 over CSX RR	NBL & SBL 154' x 42'	93.0
I-85 over SR 34	NBL & SBL 290' x 42'	93.7
SR 16 Overpass	325' x 40'	93.30
Big Poplar Road Overpass	276' x 40'	95.30
Lower Fayetteville Rd Overpass	299' x 40'	94.38

I-85/SR 403, a rural principal arterial, is a primary corridor that traverses northeast/southwest through the northern half of the state providing mobility and connectivity from the eastern seaboard extending west to Montgomery, Alabama. The level of service (LOS) for this section of I-85 is presently a LOS "C." With a projected 60% increase in traffic by the year 2027, the LOS will decrease to "F" if the additional lanes are not constructed. The base year traffic (2007) is 57,200 VPD and the design year traffic (2027) is 93,700 VPD. The posted speed and the design speed are 70 MPH.

David Studstill

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P. I. No. 0003161, Meriwether-Coweta

June 27, 2005

The construction proposes to widen I-85 to a six lane facility for the entire project length. The typical section will consist of three, 12' lanes in each direction separated by a variable width (40' - 64') depressed grassed median, 14' (12' paved) outside shoulders and 14' (2' paved) inside shoulders. All widening will be inside and no additional right-of-way is required.

This project includes the inside widening of existing bridges over SR 14/CSX RR, CSX Railroad, SR 14/US 27 Alt, Turkey Creek Road, CSX Railroad, and SR 34. The project further includes raising (jacking) of bridges on SR 16, Big Poplar Road, and Lower Fayetteville Road over I-85 to improve vertical clearances to a minimum of 17'.

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

The estimated costs for this project are:

	<u>PROPOSED</u>	<u>APPROVED</u>	<u>FUNDING</u>	<u>PROG DATE</u>
Construction (includes E&C and inflation)	\$119,900,000	\$33,000,000	GRVA	2006
Right-of-Way & Utilities	-0-	-0-		

This project will increase capacity, enhance safety and reduce congestion along this portion of I-85. This project is in the STIP. I recommend this project concept be approved.

MBP:JDQ/cj

Attachment

CONCUR Buddy Gratton
Buddy Gratton, P.E., Director of Preconstruction

APPROVE Richard Wayne Fedora (SUBJECT TO CHANGES
for Robert M. Callan, Administrator, FHWA AGREED TO (W/EMAIL STRING)

APPROVE David E. Studstill, Jr.
David E. Studstill, Jr., P.E., Chief Engineer

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE MSL-0003-00(161) Meriwether & Coweta County **OFFICE** Road Design
PI # 0003161 **DATE** May 16, 2005

FROM *Brent A. Story*
Brent A. Story, P.E., State Road & Airport Design Engineer

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

SUBJECT Project Concept Report

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

BAS:JLM:CAC

cc: David Mulling
Harvey Keeper
Keith Golden
Joe Palladi
Jamie Simpson
Thomas Howell
Paul Liles

Project Concept Report

DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA *Road & Airport Design*

Project Number: MSL-0003-00(161)
County: Meriwether & Coweta
P. I. Number: 0003161

Federal Route Number: I-85
State Route Number: 403

Prepared By: R. K. SHAH & ASSOCIATES, INC

Recommendation for approval:

DATE 5-16-05

DATE 5-16-05

J. Andy Camp
Project Manager
R. K. Shah
Office Head/District Engineer

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

DATE _____

State Transportation Planning Administrator

DATE _____

State Financial Management Administrator

DATE _____

State Environmental/Location Engineer

DATE _____

State Traffic Safety and Design Engineer

DATE _____

District Engineer

DATE _____

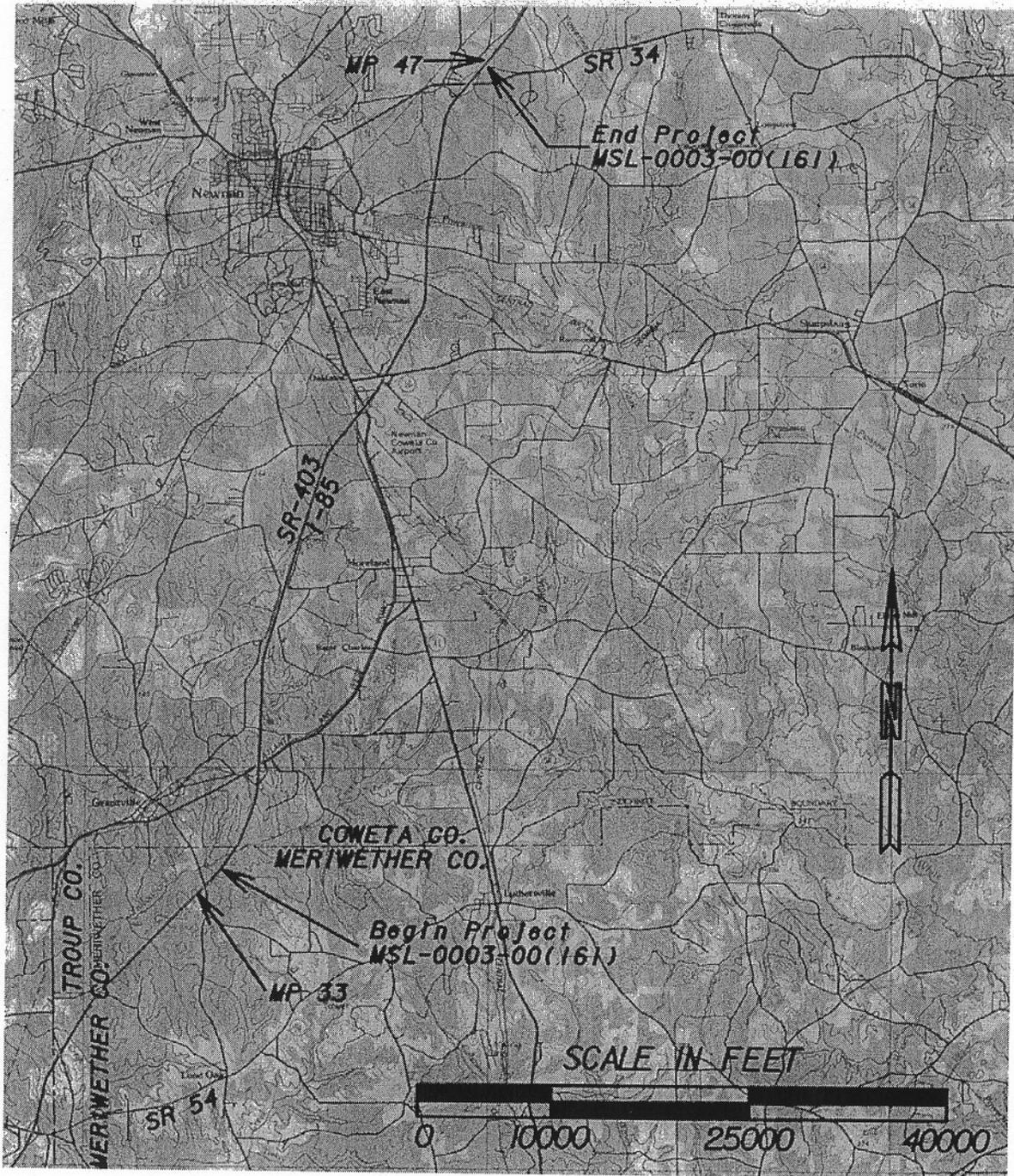
Project Review Engineer

DATE _____

State Bridge Design Engineer

Project Concept Report page 2
Project Number: MSL-0003-00(161)
P. I. Number:0003161
County: Meriwether/Coweta

LOCATION MAP



Project Concept Report page __3
 Project Number: MSL-0003-00(161)
 P. I. Number:0003161
 County: Meriwether/Coweta

Need and Purpose: See Attachment

Project in Area

The following Projects are located within the area and are programmed in the Department's Construction work and Long Range Programs:

Project Number	Project Description	Project Schedule
P. I. No. 0003246	11" Overlay of Existing Pavement and Inside Widening of I-85	
P.I. No. 311790	Improvements of SR 34 Interchange	

Safety:

Below are accident data for SR 403/I-85 for the years 1997, 2000 and 2001 (the most recent year for which accident data is available). This data is compared to the statewide average for a similar facility.

Accident Data for SR 403/I-85(Rural Principal Arterial)

Year	1997	1997	2000	2000	2001	2001
Comparison	SR 403/I-85	Statewide	SR 403/I-85	Statewide	SR 403/I-85	Statewide
Accidents	155	4766	192	6627	156	7231
Accident Rate	304	49	321	61	249	65
Injuries	82	2707	114	3772	86	3778
Injury Rate	160	28	190	35	137	34
Fatalities	1	100	0	125	1	133
Fatality Rate	2	1.03	0	1.15	2	1.20

Operational Analysis: Level of Services (LOS) is defined as a qualitative measure describing operational condition within a traffic stream. There are six identified LOS with letters 'A' through 'F'. LOS A represents the best operating condition and LOS 'F' represents the worst. LOS 'C' is considered as acceptable and marks the beginning of a range of traffic flow in which level of driving comfort declines noticeably on the roadway. LOS 'E' represents at or near capacity for traffic flow. LOS 'F' represents heavily congested flow with traffic demands exceeding capacity. The AADT for the Year 2007 on SR 403/I-85 is 57,200 which is LOS 'C'. The SR 403/I-85 is projected to have an average daily traffic (ADT) of 93,700 in 2027 which is LOS 'F' without proposed improvements. The proposed improvements would result in a LOS "D" in 2027 with an ADT of 93,700

Project Concept Report page 4
Project Number: MSL-0003-00(161)
P. I. Number:0003161
County: Meriwether/Coweta

Description of the proposed project: Inside widening of 13.655 miles of SR 403/I-85 from north of Forest Road (M.P. # 33.259) in Meriwether County to north of SR 34 (M.P. # 46.914) in Coweta County. When completed project will provide 3-12 ft. lanes, 14 ft. inside and outside shoulder (12 ft. paved), in each direction divided with variable width (40 ft.-64 ft.) depressed grass median. This project includes the inside widening of existing Bridges over SR 14/CSX Railroad (Suff. Rating-75.54/HS-15Loading), Bethlehem Church Rd.(Suff. Rating-88.05/HS-15Loading), CSX Railroad (Suff. Rating-82.96/HS-15Loading), SR14/US 27Alt. (Suff. Rating-94.51/HS-15Loading), Turkey Creek Road (Suff. Rating-91.27/HS-15Loading), CSX Railroad (Suff. Rating-91.27/HS-15Loading) and SR 34(Suff. Rating-93.77/HS-15Loading). The project further includes raising(Jacking) of Bridge on SR 16, Big Poplar Road and Lower Fayetteville Road, over I-85 to improve vertical clearances to minimum of 17 ft.

The project improves existing pavement cross slope of 1/8 in./ft to 2.00 % by rotating existing Bridge Deck on I-85 under traffic.

Further the project will provide one CCTV remote controlled Camera per direction at each Interchange.

Is the project located in a Non-attainment area? Yes

PDP Classification:

Full Oversight (X), Exempt(), State Funded(), or Other ()

Functional Classification: Major Principal Rural Arterial (Freeway)

U. S. Route Number(s): I-85

Stat Route Number(s): SR 403

Traffic (AADT):

Current Year: (2007) 57,200

Design Year: (2027) 93,700

K= 8 %, D= 55 %, T= 14 % 24 Hour T= 21 %

Existing design features:

- Typical Section: 2-12 ft. lanes in each direction divided with variable width (64 ft.-88ft.) depressed grassed median. 12ft/14 ft.(10 ft./12 ft. Paved) outside shoulder and 10 ft. (2 ft. Paved) inside shoulder
- Posted speed : 65 mph/70 mph Maximum degree of curvature: 1.50 Degree
- Maximum grade: 3.00 %
- Width of right of way: 400 ft.

Project Concept Report page __5
 Project Number: MSL-0003-00(161)
 P. I. Number:0003161
 County: Meriwether/Coweta

Location of Substandard Vertical Alignment:

V.P.I. STA	EXIST LVC-ft.	EX. "K"	2001 AASHTO REQ'D "K"	2001 AASHTO REQ'D LVC-ft.
1530+21.75	800	169 (SAG)	181 (SAG)	857
1568+56.75	900	162 (SAG)	181 (SAG)	1007

- Major structures:

Existing Bridge on I-85

Location	Over	Length	Width	#-Span	Str. I.D.	Loc. I.D.	Suff. Rating
Left/I-85-SB	SR 14/CSX	307	58.60	4	077-0033-0	077-00403D-35.21N	75.54/HS-15
Right/I-85NB	SR 14/CSX	307	54.30	4	077-0032-0	077-00403D-35.20N	88.05/HS-15
Left/I-85-SB	Beth Ch. Rd.	151	42.00	3	077-0036-0	077-00403D-38.10N	88.05/HS-15
Right/I-85NB	Beth Ch. Rd	151	42.00	3	077-0035-0	077-00403D-38.9N	88.05/HS-15
Left/I-85-SB	CSX RR	183	58.00	3	077-0039-0	077-00403D-40.89N	82.96/HS-15
Right/I-85NB	CSX RR	183	50.00	3	077-0038-0	077-00403D-40.88N	87.00/HS-15
Left/I-85-SB	US29/US27Alt	272	42.00	4	077-0041-0	077-00403D-41.19N	94.51/HS-15
Right/I-85NB	US29/US27Alt	272	42.00	4	077-0042-0	077-00403D-41.18N	94.51/HS-15
Left/I-85-SB	Turkey Ck. Rd	144	42.00	3	077-0044-0	077-00403D-43.48N	91.27/HS-15
Right/I-85NB	Turkey Ck. Rd	144	42.00	3	077-0043-0	077-00403D-43.47N	91.27/HS-15
Left/I-85-SB	CSX RR	154	42.00	3	077-0046-0	077-00403D-43.66N	93.01/HS-15
Right/I-85NB	CSX RR	154	42.00	3	077-0045-0	077-00403D-43.66N	93.01/HS-15
Left/I-85-SB	SR 34	290	42.00	4	077-0048-0	077-00403D-35.20N	93.77/HS-15
Right/I-85NB	SR 34	290	42.00	4	077-0047-0	077-00403D-35.20N	93.77/HS-15

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 Project Number: MSL-0003-00(161)
 P. I. Number:0003161
 County: Meriwether/Coweta

Existing Bridge Over SR 403/I-85

Location	On Road	Length	Width	#-Span	Str. I.D.	Loc. I.D.	Clear.	Suff. Rating
1310+36.31	SR 16	325.0	40'	4	077-0005-0	077-00016D-013.57N	16.65'	93.30
1425+68.30	Big Poplar Rd.	276'	40'	4	077-0076-0	077-02813F-000.01E	16.67'	95.30
1481+14.13	Lower Fayetteville Rd.	299'	40'	4	077-0052-0	077-00736F-000.01E	17.00'	94.38

Bridge Culverts: TRP. 8 ft. X 7 ft., TRP. 8ft. X 8 ft., and DBL. 10 ft.x 10 ft.

- Major interchanges or intersections along the project:US29/SR14, US29/US27ALT and SR 34
- Existing length of roadway segment and the beginning mile logs for each county:
SR 403/I-85 Form M. P. # 33.259 in Meriwether County to M.P. # 46.914 in Coweta County. Total Project Length is 13.655 miles.
Meriwether County: From M.P. # 33.259 to M.P. # 33.816 Total 0.557 mile(4.079 %) and
Coweta County: From M.P. # 33.816 to M.P. # 46.914 Total 13.098 mile (95.921 %)

Proposed Design Features:

- Proposed typical section(s): 3-12 ft. lanes in each direction divided with variable width (40 ft.-64ft.) depressed grassed median. 14 ft.(12 ft. Paved) outside shoulder and 14 ft. 1(2 ft. Paved) inside shoulder. Two outside lane will drain outside and one inside lane will drain to the middle.
- Proposed Design Speed Mainline: **70 mph**
- Proposed Maximum grade Mainline: **3.00 %** Maximum grade allowable : **3.00 %.**
- Proposed Maximum grade Side Street : **N.A.** Maximum grade allowable : **N.A.**
- Proposed Maximum grade driveway : **N.A.**
- Proposed Maximum degree of curve : **1.50 Degree.** Maximum degree allowable : **3 Degree**
- Right of way
 - Width : **400 ft.**
 - Easements: Temporary (), Permanent (**X**), Utility (), Other ().
 - Type of access control: Full (**X**), Partial (), By Permit (), Other ().
 - Number of parcels: _____ Number of displacements:
 - Business: _____
 - Residences: _____
 - Mobile homes: _____
 - Other: _____

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 Project Number: MSL-0003-00(161)
 P. I. Number:0003161
 County: Meriwether/Coweta

• **Structures:**

Existing Bridge on I-85: Inside widening to provide 3-12 ft.lane, 12 ft. inside and outside shoulder /direction. Rotate existing Deck to provide 2% cross slope.

Location	Over	Length	Width	#-Span	Str. I.D.	Loc. I.D.	Suff. Rating
Left/I-85-SB	SR 14/CSX	307	58.60	4	077-0033-0	077-00403D-35.21N	100/HS-20
Right/I-85NB	SR 14/CSX	307	54.30	4	077-0032-0	077-00403D-35.20N	100/HS-20
Left/I-85-SB	Beth Ch. Rd.	151	42.00	3	077-0036-0	077-00403D-38.10N	100/HS-20
Right/I-85NB	Beth Ch. Rd	151	42.00	3	077-0035-0	077-00403D-38.9N	100/HS-20
Left/I-85-SB	CSX RR	183	58.00	3	077-0039-0	077-00403D-40.89N	100/HS-20
Right/I-85NB	CSX RR	183	50.00	3	077-0038-0	077-00403D-40.88N	100/HS-20
Left/I-85-SB	US29/US27Alt	272	42.00	4	077-0041-0	077-00403D-41.19N	100/HS-20
Right/I-85NB	US29/US27Alt	272	42.00	4	077-0042-0	077-00403D-41.18N	100/HS-20
Left/I-85-SB	Turkey Ck. Rd	144	42.00	3	077-0044-0	077-00403D-43.48N	100/HS-20
Right/I-85NB	Turkey Ck. Rd	144	42.00	3	077-0043-0	077-00403D-43.47N	100/HS-20
Left/I-85-SB	CSX RR	154	42.00	3	077-0046-0	077-00403D-43.66N	100/HS-20
Right/I-85NB	CSX RR	154	42.00	3	077-0045-0	077-00403D-43.66N	100/HS-20
Left/I-85-SB	SR 34	290	42.00	4	077-0048-0	077-00403D-35.20N	100/HS-20
Right/I-85NB	SR 34	290	42.00	4	077-0047-0	077-00403D-35.20N	100/HS-20

Raising (Jacking) of Existing Bridge Over SR 403/I-85

Location	On Road	Length	Width	#-Span	Str. I.D.	Loc. I.D.	Raise	Suff. Rating
1310+36.31	SR 16	325.0	40'	4	077-0005-0	077-00016D-013.57N	0.60'	93.30
1425+68.30	Big Poplar Rd.	276'	40'	4	077-0076-0	077-02813F-000.01E	0.58'	95.30
1481+14.13	Lower Fayetteville Rd.	299'	40'	4	077-0052-0	077-00736F-000.01E	0.25'	94.38

Bridge Culverts: TRP. 8 ft. X 7 ft., TRP. 8ft. X 8 ft., and DBL. 10 ft.x 10 ft.-No Improvements Required.

- Major intersections and interchanges. US29/SR14, US29/US27ALT and SR 34
- Traffic control during construction: Stage Construction Required. All Construction under Traffic.
- Design Exceptions to controlling criteria anticipated:

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

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Project Number: MSL-0003-00(161)
P. I. Number:0003161
County: Meriwether/Coweta

- Design Variances: None
- Environmental concerns: None

- Level of environmental analysis:
 - Are Time Savings Procedures appropriate? Yes (**X**), No (),
 - Categorical exclusion (**X**),
 - Environmental Assessment/Finding of No Significant Impact (FONSI) (), or
 - Environmental Impact Statement (EIS) ().
 -
- Utility involvements: Gas/Atlanta Gas Light, Fiber Optic/MCI World Com, Fiber Optic/ITC Delta, Power/GA Power, Power/Coweta-Fayette EMC, Telephone/Bell South, Cable TV/Comcast Cable, Cable TV/Charter, Water-Sewer/Coweta County Water & Sewer and Water-Light-CATV/Newnan Utilities, CSX Transportation, Norfolk Southern Railroad.

Project responsibilities:

- Design: R K. SHAH & ASSOCIATES, INC.
- Right of Way Acquisition: GDOT
- Relocation of Utilities: By Utility Owner
- Letting to contract: GDOT
- Supervision of construction: GDOT
- Providing material pits: Construction Contractor
- Providing detours: Stage Construction Required under traffic.

Coordination

- Initial Concept Meeting date and brief summary. See Attachments
- Concept meeting date and brief summary. Attach minutes: See Attachments
- P. A. R. meetings, dates and results. :
- FEMA, USCG, and/or TVA
- Public involvement. :
- Other projects in the area.: Improvement of I-85/SR 34 Interchange Improvements
- Other coordination to date.: None

Scheduling – Responsible Parties' Estimate

- Time to complete the environmental process: 6 Months
- Time to complete preliminary construction plans: 12 Months
- Time to complete right of way plans: N/A
- Time to complete the Section 404 Permit: N/A
- Time to complete final construction plans: 12 Months
- Time to complete to purchase right of way: 6 Months
- List other major items that will affect the project schedule: N/A

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Project Number: MSL-0003-00(161)
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County: Meriwether/Coweta

- Other alternates considered:**
1. No Build.
 2. Symmetrical Widening of SR 403/I-85 by adding 6 ft (1/2 lane) inside and outside in each direction.

Comments:

Attachments:

1. Cost Estimates:
 - a. Construction including E&C,-Attached
 - b. Right of Way, -TBD
 - c. Utilities.TBD
2. Sketch location map,-Attached
3. Typical sections,-Attached
4. Accident summaries,-Part of Report
5. Capacity analysis-Part of Report
6. Bridge inventory-Part of Report
7. Minutes of Initial Concept and Concept meetings,- January 14, 2004

Approvals, Full Oversight projects:

Concur: _____
Director of Preconstruction

Approve: _____
Division Administrator, FHWA

Approve: _____
Chief Engineer

Project Concept Report page 10
 Project Number: MSL-0003-00(161)
 P. I. Number:0003161
 County: Meriwether/Coweta

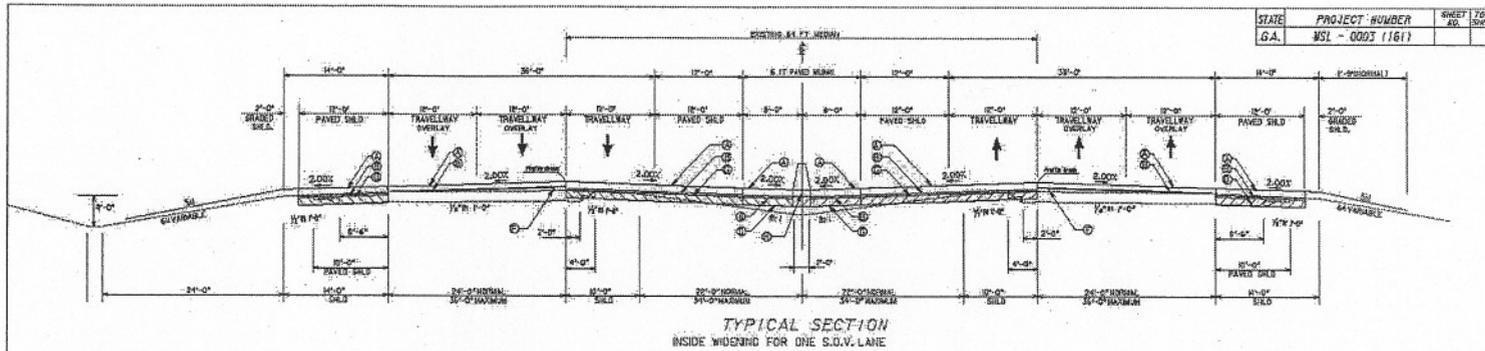
MSL-0003 (161) - PI# 0003161
 Cost Estimate

	Description	Unit	Unit Price	Quantity	\$ Amount
A	RIGHT OF WAY & EASEMENTS			N/A	
B	UTILITIES			TBD	
C.	MAJOR STRUCTURES				
	BRIDGES				
a.	BR 1 LT SBL I-85 OVER SR 14 / CSX RR STA. 963+65.66	LUMP	LUMP	LUMP	\$1,931,000.00
b.	BR 1 RT NBL I-85 OVER SR 14 / CSX RR STA. 963+65.66	LUMP	LUMP	LUMP	\$1,870,000.00
c.	BR 2 LT SBL I-85 OVER BETHLEHEM CH RD REL. STA 114+-	LUMP	LUMP	LUMP	\$929,000.00
d.	BR 2 RT NBL I-85 OVER BETHLEHEM CH RD REL. STA 114+-	LUMP	LUMP	LUMP	\$929,000.00
e.	BR 3 LT SBL I-85 OVER CSX RR STA. 1223+_	LUMP	LUMP	LUMP	\$1,268,000.00
f.	BR 3 RT NBL I-85 OVER CSX RR STA. 1223+_	LUMP	LUMP	LUMP	\$1,218,000.00
g.	BR 4 LT SBL I-85 OVER SR-14/US-27 ALT. STA. 1278+59.47	LUMP	LUMP	LUMP	\$1,731,000.00
h.	BR 4 LT NBL I-85 OVER SR-14/US-27 ALT. STA. 1278+59.47	LUMP	LUMP	LUMP	\$1,731,000.00
i.	BR 5 SR 16 OVER I-85 STA. 1310+36.31 - JACKING	LUMP	LUMP	LUMP	\$277,000.00
j.	BR 6 LT SBL I-85 OVER TURKEY CREEK RD STA 1394+81.71	LUMP	LUMP	LUMP	\$920,000.00
k.	BR 6 RT NBL I-85 OVER TURKEY CREEK RD STA 1394+81.71	LUMP	LUMP	LUMP	\$920,000.00
l.	BR 7 LT SBL OVER SOUTHERN RR STA 1403+_	LUMP	LUMP	LUMP	\$977,000.00
m.	BR 7 RT NBL OVER SOUTHERN RR STA 1403+_	LUMP	LUMP	LUMP	\$977,000.00
n.	BR 8 BIG POPLAR RD OVER I-85 STA. 1425+68.3 - JACKING	LUMP	LUMP	LUMP	\$234,000.00
o.	BR 9 LOWER FAYETTE RD OVER I-85 STA. 1481+14.13 - JACKING	LUMP	LUMP	LUMP	\$254,000.00
p.	BR 10 LT SBL I-85 OVER SR-34	LUMP	LUMP	LUMP	\$1,835,000.00
q.	BR 10 RT NBL I-85 OVER SR-34	LUMP	LUMP	LUMP	\$1,873,000.00
D.	GRADING AND DRAINAGE				
1 a.	UNCLASSIFIED EXCAVATION	CU. YD.	\$3.00	215000	\$645,000.00
2	DRAINAGE	LUMP	LUMP	LUMP	\$1,856,100.00
E.	BASE & PAVING				
1	GRADED AGGREGATE BASE 12"	TONS	\$13.40	425300	\$5,699,020.00
2	CONTINUOUSLY REINFORCED CONCRETE CRC)- 11" Shoulder	SQ. YD.	\$49.50	248083	\$12,280,108.50
3	CONTINUOUSLY REINFORCED CONCRETE CRC)- 11" Overlay	SQ. YD.	\$49.50	382395	\$18,928,552.50
4	CONTINUOUSLY REINFORCED CONCRETE CRC)- 11" New	SQ. YD.	\$49.50	382395	\$18,928,552.50
5	ASPHALTIC CONCRETE OVERLAY - LEVELING	TON	\$42.00	29396	\$1,234,632.00
6	ASPHALTIC CONC. 19mm, 330 LB/SY- 3" Overlay	TON	\$43.00	63100	\$2,713,300.00
7	ASPHALTIC CONC. 19mm, 330 LB/SY- 3" New	TON	\$43.00	104083	\$4,475,569.00
8	BITUMINOUS TACK COAT	GAL	\$1.05	48785	\$51,224.25
F.	LUMP SUM ITEMS				
1	TRAFFIC CONTROL	LUMP	LUMP	LUMP	\$400,000.00
	DETOUR PAVEMENT @ 191,300 SQ. YD	LUMP	LUMP	LUMP	\$4,782,500.00
2	CLEARING & GRUBBING - 396 AC	LUMP	LUMP	LUMP	\$475,200.00
3	GRASSING - 87 AC	LUMP	LUMP	LUMP	\$65,250.00
4	EROSION CONTROL	LUMP	LUMP	LUMP	\$1,825,710.00
G.	MISCELLANEOUS ITEMS				
2	GUARDRAIL, TP W	LF	\$10.10	27100.0	\$273,710.00
4	GUARDRAIL ANCHORAGE, TP 1	EA	\$450.00	46	\$20,700.00
5	GUARDRAIL ANCHORAGE, TP 12	EA	\$1,551.00	46	\$71,346.00
6	FENCE, R/W, GAME	LF	\$12.40	144000	\$1,785,600.00
7	APPROACH SLABS	SQ YD	\$113.50	4600	\$522,100.00
8	PRECAST BARRIER, METHOD 3	LF	\$36.00	7170	\$258,120.00
9	PRECAST BARRIER, METHOD 4	LF	\$36.00	2810	\$101,160.00
10	CONCRETE BARRIER, TP S-1	LF	\$60.00	36310	\$2,178,600.00
11	AGGREGATE SURFACE COURSE	TON	\$16.00	1000	\$16,000.00
12	CCTV - REMOTE CONTROL CAMERA	EA	\$30,000.00	6	\$180,000.00

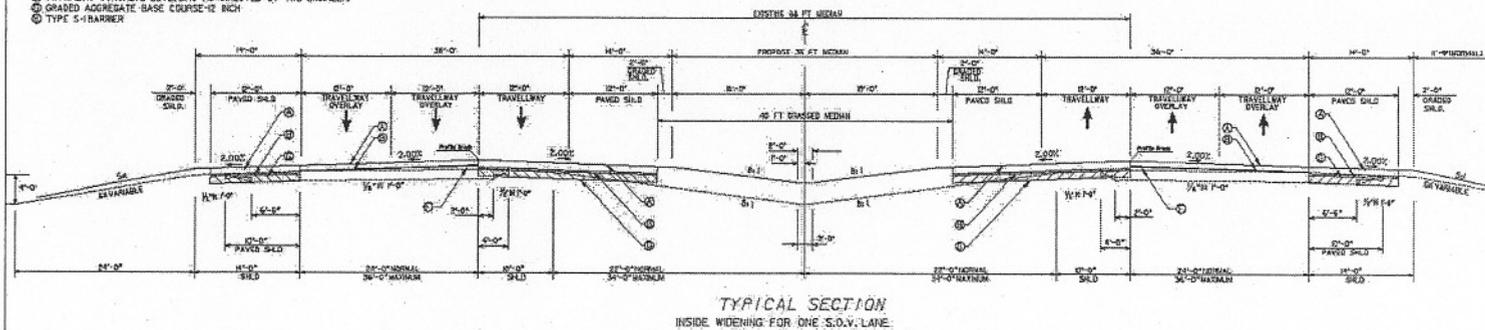
Project Concept Report page __11
 Project Number: MSL-0003-00(161)
 P. I. Number:0003161
 County: Meriwether/Coweta

MSL-0003 (161) - PI# 0003161
 Cost Estimate

	Description	Unit	Unit Price	Quantity	\$ Amount
H.	SPECIAL ITEMS				
1	ENGINEER'S OFFICE - TP 3	EA	\$62,000.00	1	\$62,000.00
	SUBTOTAL				\$99,704,054.75
	INFLATION 2 YEARS @ 5% /YR				\$10,219,665.61
	E & C 10%				\$9,970,405.48
	TOTAL				\$119,894,125.84
	TOTAL PROJECT COST - CONCEPT				\$119,900,000.00



- ① CONTINUOUSLY REINFORCED CONCRETE (CRCP)-8 INCH
- ② ASPHALTIC CONCRETS, Super SUPER PAVE C30 LB./30. YD)-3 INCH
- ③ ASPHALTIC CONCRETE LEVELLING AS DIRECTED BY THE ENGINEER.
- ④ GRADED AGGREGATE BASE COURSE-12 INCH
- ⑤ TYPE 5-BARRIER



CONSTRUCTION ACTIVITIES STAGE I: GRADABLE STAGE II: PAVED SHOULDER STAGE III: TRAVELWAY OVERLAY		TRAFFIC OPERATION STAGE I: MERIWETHER / COWETA STAGE II: BARRIER STAGE III: BARRIER		R.K. SMITH & ASSOCIATES, INC. ENGINEERS TRANSPORTATION / CIVIL / SURV. 300 MIDCOURT SQUARE INSIDE THE SITE ONE ATLANTA, GEORGIA 30309 TELEPHONE: 770-455-9970	DATE: _____ REVISIONS: _____ DATE: _____ REVISIONS: _____ DATE: _____ REVISIONS: _____	REVISIONS: _____ REVISIONS: _____ REVISIONS: _____	REVISED AUGUST 31, 2004 GEORGIA DEPARTMENT OF TRANSPORTATION TYPICAL SECTION PROJECT: MSL - 0003 (161) COUNTY: MERIWETHER / COWETA	SHEET NO. 119 T-1M
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Need and Purpose Statement
I-85/SR 403 from SR 34 to Forrest Road
MSL-0003-00(161) in Coweta County
P. I. No.: 0003161
Widening and Bridge Improvements

Background

The proposed project is the widening and pavement rehabilitation of I-85/SR 403 from SR 34 in Coweta County to Forest Road in Meriwether County. Interstate 85 (SR 403) serves the United States both as a National Highway System (NHS) and Strategic Highway Network (STRAHNET) major corridor. STRAHNET is a network of highways which are important to the United States' strategic defense policy. Interstate 85 (SR 403) traverses northeast/southwest Georgia providing connectivity from the eastern seaboard and extending west to Montgomery, Alabama. Within the scope of this project, I-85 connects the cities of Newnan and Grantville.

The preliminary engineering phase of this project was authorized in 2003 and the construction phase is scheduled for 2006.

Existing Conditions

The existing roadway has two 12-foot lanes in each direction divided with a variable width (64 ft.-88 ft.) depressed grassed median. The outside shoulder is 12 ft. / 14 ft. (10 ft. / 12 ft. paved) and the inside shoulder is 10 ft. (2 ft. paved). The posted speed limit is 70 mph along this route. The functional classification for I-85 within the scope of this project is Rural Interstate Principal Arterial south of SR 14 / Jefferson Davis Memorial Highway and is classified as an Urban Interstate Principal Arterial north of SR 14 / Jefferson Davis Memorial Highway.

Proposed Improvements

The proposed project seeks to provide 3 -12 ft. lanes, 14 ft. inside shoulders (12 ft. paved) and 14 ft. outside shoulders (12 ft. paved) in each direction with a variable width (40 ft.- 64 ft.) depressed grass median. This project also includes the widening of existing bridges over SR 14 / CSX Railroad (Suff. Rating 75.54/HS-15 loading), Bethlehem Church Rd. (Suff. Rating 88.05/HS-15 loading), CSX Railroad (Suff. Rating - 82.96 / HS-15 loading), SR 14 / US 27 alt. (Suff. Rating - 94.51 / HS-15 loading), Turkey Creek Road (Sufficiency 91.27 / HS-15 loading), CSX Railroad (Suff. Rating 91.27 / HS-15 loading), and SR 34 (Suff. Rating 93.77 / HS-15 loading). The project further includes the raising of the bridges for SR 16, Big Poplar Road and Lower Fayetteville Road over I-85 to improve vertical clearances to the minimum of 17 ft. The project will also include the installation of one CCTV remote controlled camera at each interchange.

Existing and Projected Traffic Conditions

Level of service (LOS) is defined as a qualitative measure describing operational conditions within a traffic stream. There are six identified LOS with letters 'A' through 'F'. LOS A represents the best operating conditions and LOS F represents the worst. LOS C is considered as acceptable and marks the beginning of a range of traffic flow in which level of driving comfort declines noticeably on the roadway. LOS E represents at or near capacity for traffic flow. LOS F represents heavily congested flow with traffic demands exceeding capacity. The average annual daily traffic (AADT) for I-85 between Forrest Road and SR 34 is 45,580 vpd. This indicates a LOS 'C'. The AADT is projected to be 87,336 in the year 2027, which would indicate a LOS 'F'. Given the current projections, this route will not reach LOS 'E' until the year 2022, and a LOS 'F' in the year 2026. The proposed improvements would result in a LOS 'C' with an AADT of 92,578 in the year 2029.

Logical Termini

The northern terminus is the interchange of SR 34 where improvements are currently under development and with which this project will tie in to Project No. 311790. The southern terminus is the interchange of I-185 in Troup County, approximately nine miles south of the project end.

Project Linkage

The following Projects 0003246 and 311790, as listed in Table 1, are located within the vicinity and are programmed in the Department's Construction Work and Long Range Programs. Project No. 0003246 is the widening and pavement rehabilitation of I-85 directly south of this project. The improvement was split into two separate projects from the original concept plan due to difficulties in funding. In regards to Project No. 311790, the revised concept plan will need to take into account and be coordinated with the reconstruction and rehabilitation of the SR 34 interchange.

Table 1: Projects in the Vicinity

Project No.	Project Description	Project Schedule
PI No. 0003246	11" Overlay of existing pavement and inside widening of I-85	PE -Auth. ROW -none CST -Long Range
PI No. 311790	Improvements of SR 34 Interchange	PE -Auth. ROW -PRECST CST - 2006

Environmental Justice

There are four Census Tracts (CT) in which this project is located. CT 13077170302 contains the northernmost portion of the project and consists primarily of the Northern part of the City of Newnan. CT 13077170600 is located in the northern portion of the project and contains the southern and eastern parts of the City of Newnan. CT 13077170800 contains the largest portion of the project. The cities of Grantville and Moreland are located within this Census Tract. CT 13199970100 contains the southernmost portion of the project which is located within Meriwether County, while the first three census tracts are located within Coweta County. From careful review of this project and the demographic information in Table 2, there does not seem to be a disproportionate effect on the environment for minorities, low income families, or the elderly population.

Table 2: Demographics

Census Tract	% Minority	\$0-25K Per household	\$25-50K Per household	\$50-75K Per household	\$75-100K Per household	\$100K+ Per household	1990 Pop.	2000 Pop.
13077170302	29%	27%	26%	19%	13%	16%	5551	10197
13077170600	40%	34%	24%	18%	13%	9%	7097	10694
13077170800	15%	29%	27%	26%	10%	7%	5436	7130
13199970100	49%	38%	34%	17%	8%	3%	3937	4449

Bike and Pedestrian Facilities

This project is contained entirely within a limited access highway and therefore will not provide bike or pedestrian facilities.

Accident Data

Table 3 and 4 depict the accident rates on I-85 between Forrest Road and SR 34 in contrast to the statewide averages. The data has been separated to account for the different classifications of I-85 / SR 403 throughout the length of the project. The northern portion of I-85 between SR 14 / Jefferson Davis Memorial Hwy and SR 34 is classified as an Urban Interstate Principal Arterial. The southern portion of I-85 between Forrest Road and SR 14 / Jefferson Davis Memorial Hwy is classified as a Rural Interstate Principal Arterial.

A review of Table 3 shows that the accident rate for I-85 between SR 14 / Jefferson Davis Memorial Hwy and SR 34 was greater than the state average in the year 2000, but less in the years 2001 and 2002. The injury rate was greater in the year 2000, less in the year 2001, and equal to the statewide average in 2002. The fatality rate was less in the years 2000 and 2001, but greater in the year 2002.

Table 4 shows that the accident rate and the injury rate for I-85 between Forrest Road and SR 14 / Jefferson Davis Memorial Hwy were lower than the statewide averages for the years 2000, 2001, and 2002. The fatality rate was lower in the years 2000 and 2001, but higher in the year 2002.

The greatest concentration of accidents is at the interchange of SR 34 / Col Joe M Jackson Highway. This interchange is the northern terminus where improvements are being made in project # 311790. In the year 2000, this interchange accounted for 45% of the accidents along this route. In 2001, the proportion decreased to 42%, and in 2002, the proportion was 39%.

Table 3: Accidents / Accident Rates for I-85/SR 403 from SR 14 / Jefferson Davis Memorial Drive to SR 34 During the Years 2000, 2001, and 2002

Year	2000		2001		2002	
	SR 403	Statewide	SR 403	Statewide	SR 403	Statewide
Accidents	200		158		180	
Accident Rate	223	196	155	201	173	204
Injuries	106		64		77	
Injury Rate	118	73	63	79	74	74
Fatalities	0		0		1	
Fatality Rate	0	0.75	0.00	0.81	.96	0.54

Table 4: Accidents / Accident Rates for I-85/SR 403 from Forrest Road to SR 14 / Jefferson Davis Memorial Hwy During the Years 2000, 2001, and 2002

Year	2000		2001		2002	
	SR 403	Statewide	SR 403	Statewide	SR 403	Statewide
Accidents	71		71		81	
Accident Rate	49	61	41	65	46	73
Injuries	38		52		52	
Injury Rate	26	35	30	34	30	36
Fatalities	0		1		2	
Fatality Rate	0.00	1.15	.58	1.20	1.14	1.02

Need and Purpose

The need and purpose for the widening of I-85 is that the Level of Service will drop to level 'E' in the year 2022 and down to LOS 'F' in the year 2026. Provided that I-85 is a major transportation facility that is vital to the economic stability of Georgia and to all the states to which this route provides access, this project should be implemented. Furthermore, the widening of the shoulders on the inside and outside lanes will serve to mitigate current safety hazards as well as prevent future hazards as traffic volume increases. The raising of the three bridges for SR 16, Big Poplar Road, and Lower Fayetteville Road should be addressed to meet the minimum height requirements.

CONCEPT TEAM MEETING
JAN 14, 2004

QUESTIONS AND CONCERNS:

PI 0003246

- 1) Concrete Overlay?
- 2) Do we use Asphalt to Correct Cross Slopes?
- 3) Widening to Inside First?
- 5) Concrete Barrier (S-Type) with Removable Barrier or Double Face Guardrail?
- 6) Will there be Temporary Paving where there is Bridge Jacking?
- 7) Who will be Responsible for the work to be done on all Bridges of I-185 I/C?
- 8) Will there be any Traffic Detours or R/W required where there is Bridge Jacking?
- 9) Will there be Clearing from Roadway to R/W Fencing (Clear Zone)?
- 10) Will there be any Ditch Replacements?

PI 0003161

- 1) Will there be a Correction of the Short Ramps (Exit 35)?
- 2) Will there be a Design Exception for the Bridge at S.R. 34?
- 3) Will there be Clearing from Roadway to R/W Fencing (Clear Zone)?
- 4) Will there be any Ditch Replacements?

RECOMMENDATIONS:

PI 0003246

- 1) Concrete overlay .
- 2) CRC Overlay.
- 3) Keep 12' Lanes throughout Staging.
- 4) Keep joint at the Lane line (Need extra room for trucks 14' instead of 12').
- 5) Concrete Barrier (S-Type in the area of Existing 64 Median Section.
- 6) Whichever Project starts first should do all Bridge work at
- 7) Group needs to get together on the 3 Projects at I-185 interchange.
and decide about the what work that has to be done.
- 8) Clearing on all Projects from the Edge of Shoulder over to 50'.
- 9) Include Overhead EMS Sign for Projects .

CONCEPT TEAM MEETING
JAN 14, 2004

PI 0003161

- 1) Include Design for Noise Walls on Projects.
- 2) Include Overhead EMS Sign for Projects .
- 3) Keep 12' Lanes throughout Staging.
- 4) Keep joint at the Lane line (Need extra room for trucks 14' instead of 12').
- 5) Concrete Barrier (S-Type in the area of Existing 64 Median Section.
- 6) Clearing on all Projects from the Edge of Shoulder over to 50'.

CONCLUSION:

- 1) Department to inquire about replacing Asphalt Overlay with Concrete Overlay.
- 2) 17 inch Drop off at E.P. is O.K. for PI 0003246
- 3) Provide Concrete Barrier (S-Type) in the area of Existing 64 ft . Median
- 4) Provide Transition for Jersey Shape Barrier.
- 5) Typical needs to be resolved-PI 003246.
- 6) Investigate possibility of jacking Bridge at S.R. 34 to avoid Design Exception for Substandard Vertical Curve.
- 7) Lighting at S.R. 34 will be done by others, already has High Mass lighting.
- 8) Coweta County is Interested in Poplar Road Improvements.
- 9) There will be no need to Require Easements.
- 10) No work on anticipated between Edge of Shoulder and Right-of-Way (Clear Zone, Replacing Ditches).
- 11) In project cost estimate provide Subtotal for each section.
- 12) Vertical Clearances should be Revisited by the Office of Roadway Design.
- 13) Design will probably need to include noise walls in Hogansville.
- 14) Project needs to have a VE Study.
- 15) PI 0003161 Cost is Significantly Higher due to Replacing Pavement.
- 16) No IMR's required.
- 17) Provide Glare Screen on top of Barrier

Project Concept Report

DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA *Road & Airport Design*

Project Number: MSL-0003-00(161)

County: Meriwether & Coweta

P. I. Number: 0003161

Federal Route Number: I-85

State Route Number: 403

Prepared By: R. K. SHAH & ASSOCIATES, INC

Recommendation for approval:

DATE 5-16-05

DATE 5-16-05

C. Hardy Camp
Project Manager
R. K. Shah
Office Head/District Engineer

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

DATE _____

State Transportation Planning Administrator

DATE _____

State Financial Management Administrator

DATE _____

State Environmental/Location Engineer

DATE 5-19-05

Paul Bold
State Traffic Safety and Design Engineer

DATE _____

District Engineer

DATE _____

Project Review Engineer

DATE _____

State Bridge Design Engineer

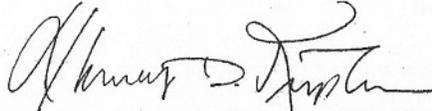
**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

FILE: P.I. No. 0003161

OFFICE: Environment/Location

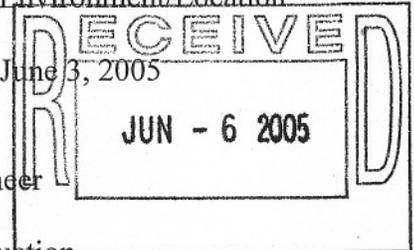
DATE: June 3, 2005



FROM: Harvey D. Keepler, State Environmental/Location Engineer

TO: Margaret B. Pirkle, P.E., Assistant Director of Preconstruction

SUBJECT: **PROJECT CONCEPT REPORT**
MSL-0003-00(161) / Meriwether & Coweta Counties



The above subject concept report has been reviewed. You may need to look at the southern terminus of the project again. This project may need to be advanced for reasons of logical termini, with Project MSL-0003-00(246), unless there is a substantial traffic break at the current terminus.

If you have any questions, please contact me at (404) 699-4401.

HDK/lc

Attachment

cc: Brian Summers, P.E., Project Review Engineer
Brent A. Story, P.E., State Road & Airport Design Engineer

Project Concept Report

DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA *Road & Airport Design*

Project Number: MSL-0003-00(161)
County: Meriwether & Coweta
P. I. Number: 0003161

Federal Route Number: I-85
State Route Number: 403

Prepared By: R. K. SHAH & ASSOCIATES, INC

Recommendation for approval:

DATE 5-16-05

DATE 5-16-05

J. Andy C...
Project Manager
R. K. Shah
Office Head/District Engineer

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

DATE _____

DATE _____

DATE 6.02.05

DATE _____

DATE _____

DATE _____

DATE _____

State Transportation Planning Administrator

Army D. ...
State Financial Management Administrator

State Environmental/Location Engineer

State Traffic Safety and Design Engineer

District Engineer

Project Review Engineer

State Bridge Design Engineer

Project Concept Report

DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA

Road & Airport Design

Project Number: MSL-0003-00(161)

County: Meriwether & Coweta

P. I. Number: 0003161

Federal Route Number: I-85

State Route Number: 403

Prepared By: R. K. SHAH & ASSOCIATES, INC

Recommendation for approval:

DATE 5-16-05

DATE 5-16-05

B. Arndt
Project Manager
R. K. Shah
Office Head/District Engineer

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

DATE _____

State Transportation Planning Administrator

DATE _____

State Financial Management Administrator

DATE _____

State Environmental/Location Engineer

DATE _____

State Traffic Safety and Design Engineer

DATE 7/5/05

J. S. [Signature]
District Engineer

DATE _____

Project Review Engineer

DATE _____

State Bridge Design Engineer