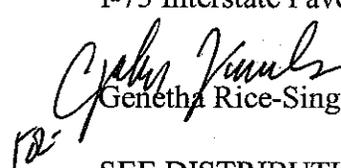


**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

FILE P. I. No. M003340, Dooly County **OFFICE** Preconstruction
CSNHS-M003-00(340)
I-75 Interstate Pavement Replacement **DATE** July 27, 2007

FROM  Genetha Rice-Singleton, Assistant Director of Preconstruction

TO *rd* SEE DISTRIBUTION

SUBJECT **APPROVED REVISED PROJECT CONCEPT REPORT**

Attached for your files is the approval for subject project.

Attachment

DISTRIBUTION:

Brian Summers
Glenn Bowman
Ken Thompson
Michael Henry
Keith Golden
Angela Alexander
Thomas Howell
David Millen
BOARD MEMBER
FHWA

10/20

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

FILE CSNHS-M003-00(340) Dooly County OFFICE Road Design
I-75 Interstate Pavement Replacement
P.I.# M003340 DATE January 25, 2007

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

TO Genetha Rice-Singleton, Assistant Director of Preconstruction

SUBJECT Revised Project Concept Report

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

The original concept called for the replacement of the center and outside lanes. The existing 10 foot wide paved inside and outside shoulders were to be replaced with 12 foot wide full depth paved shoulders. The median ditch was to be eliminated and replaced by a paved median and permanent concrete barrier. The revised concept proposes to replace the center and outside lanes. The inside shoulder is to remain 10 feet wide. The outside shoulder is to be widened to 12 feet. Both shoulders are proposed to be full depth asphalt. The proposed full depth paved median and permanent concrete barrier is to be replaced with a depressed median.

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

DATE 2/2/07

Angela J. Alexander
State Transportation Planning Administrator

Distribution:

Brian Summers, Project Review Engineer
Harvey Keepler, State Environment/Location Engineer
Keith Golden, State Traffic Safety and Design Engineer
Angela Alexander, State Transportation Planning Administrator
Jamie Simpson, State Transportation Financial Management Administrator
Thomas Howell, District Engineer
Paul Liles, State Bridge Design Engineer

REVISED PROJECT CONCEPT REPORT

Need and Purpose:

The proposed Project, CSNHS-M003-00(340), in Dooly and Houston Counties, would provide for concrete lane replacement on Interstate 75 (I-75) from C.R.323/Pinehurst-Hawkinsville Road to State Route 26 (S.R.26) for a distance of approximately 10.3 miles. The existing inside travel lanes in both directions were constructed in 1992 when Interstate 75 was widened, while the existing center and outside lanes were constructed in late 1961 along this section of I-75. Today, the center and outside lanes in both directions are deteriorating and require frequent maintenance. According to the Federal Highway Administration (FHWA), concrete pavements tend to deteriorate slowly in the first few years after construction, then at ever-increasing rates as they age. The FHWA has estimated that concrete pavements of the type found on the project corridor generally have an approximate 20 to 30-year life cycle, which has now passed. The current condition of the pavement suggests that I-75 will shortly require maintenance and repairs too frequently for cost effectiveness, maintenance of traffic flow, and safety. The Average Daily Traffic (ADT) along this section of the roadway for 2009, the projected year when the project will open to traffic, is 55,000 vehicles per day (VPD), and traffic levels are predicted to be at 81,800 VPD by 2029.

Further, the deteriorating pavement no longer meets current design standards for concrete roadways. The original concrete pavement is now 44 years old, and was constructed with a 10-inch surface layer of plain Portland cement concrete including an eight-inch granular sub-base and 12-inch Class IA or IB material base. Current pavement conditions preclude preservation or repair of the existing pavement, and reconstruction of the two lanes would correct several deficiencies currently found along the project corridor including:

1. Deteriorating pavement conditions that are unable to handle existing vehicular and truck traffic volumes;
2. Pavement that does not meet current design standards for the type and volume of traffic traveling the roadway;
3. Pavement that has passed its life-cycle; and increased wear-and-tear on vehicles, the comfort of travelers, and fuel consumption

Project location:

The project begins at C.R. 323/Pinehurst-Hawkinsville Road in Dooly County and ends at S.R. 26 in Houston County, for a total length of 10.3 miles.

Description of the approved concept:

PDP Classification: Major _____ Minor X

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

Functional Classification: Rural Interstate Principal Arterial

US Route Number(s): N/A **State Route Number(s):** 401

Traffic (AADT):

Current Year: (2009) 55,000

Design Year: (2029) 81,800

Proposed features to be revised:

Both the existing paved inside and paved outside shoulders will be replaced with full depth pavement, as well as being widened from 10 feet to 12 feet. The existing median ditch will be eliminated and replaced by paved median with permanent concrete barrier. The original concept also indicated that horizontal and vertical clearance variances would be required.

Describe the revised feature(s) to be approved:

The original concept proposed to widen the inside shoulder from 10 feet to 12 feet and replace the median ditch with a paved median and permanent barrier. The revised concept proposes to leave the inside shoulder at 10 feet wide but replace it with full depth asphalt. The revised concept also proposes a depressed median ditch in lieu of the paved median and permanent barrier. The project termini will remain the same. The revised concept does not include horizontal or vertical clearance requirements. ←

Updated traffic data (AADT):

Current Year: (2009) 55,000

Design Year: (2029) 81,800

Programmed/Schedule:

P.E. R/W: None Construction: September 2007

Revised cost estimates:

1. Construction cost including inflation and E&C,
2. Right-of-Way, and
3. Utilities

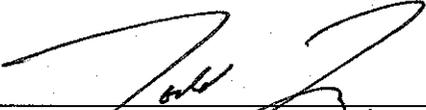
Is the project located in a Non-attainment area?

No.

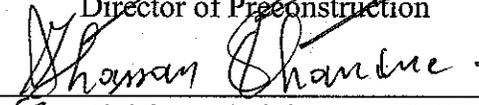
Recommendation: Recommend that the proposed revision to the concept be approved for implementation.

Attachments:

1. Sketch Map
2. Cost Estimate
3. Project Description
4. Typical Sections

Concur: 

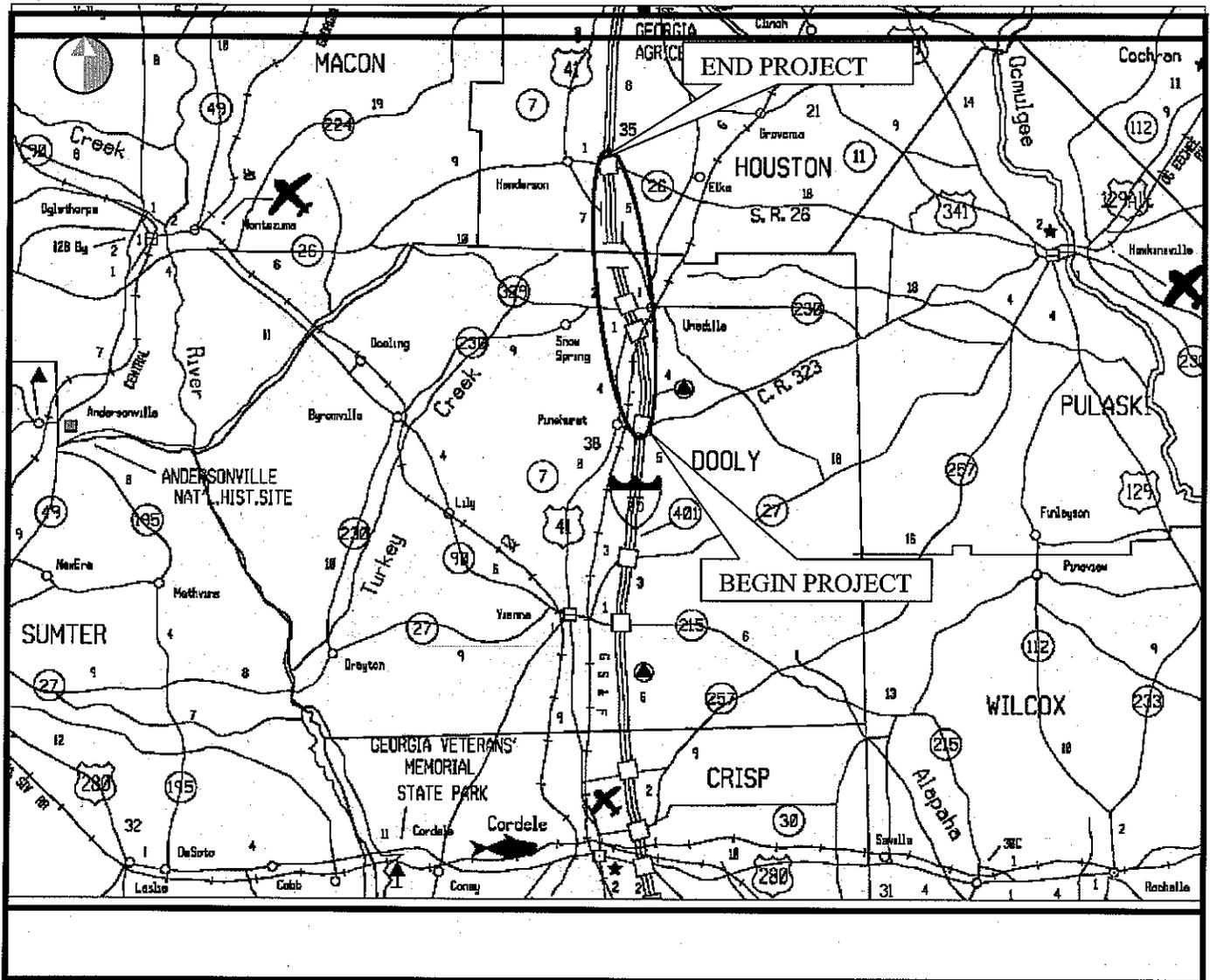
Director of Preconstruction

Approve: 

For: Division Administrator, FHWA

Approve: 

Chief Engineer



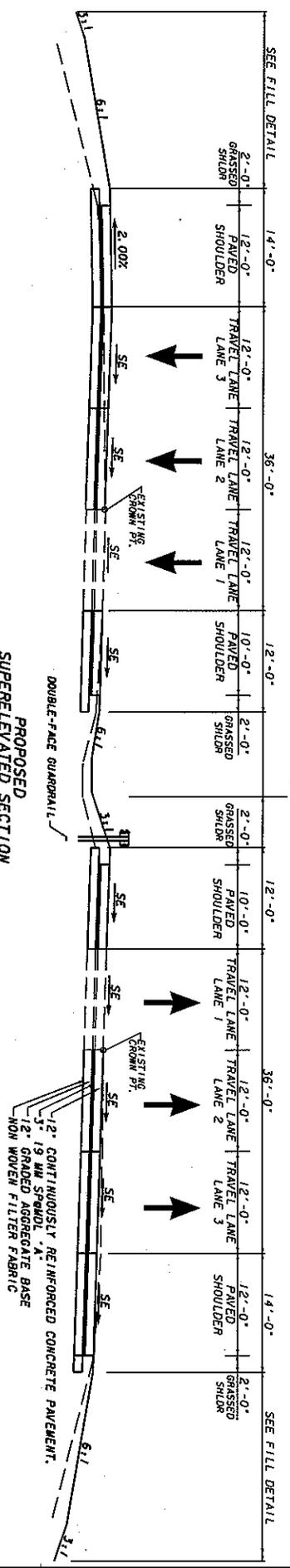
PROJECT LOCATION MAP

NOT TO SCALE

Project: CSNHS-M003-00(340), Dooly/Houston Counties **P.I. No.:** M003340
Description: I-75 Interstate Maintenance from C.R. 323/Pinehurst-Hawkinsville Road
 in Dooly County to S.R. 26 in Houston County

Project Description:

The proposed project involves the replacement of the existing concrete pavement along Interstate 75. The project begins at C.R. 323/Pinehurst-Hawkinsville Road in Dooly County and ends at S.R. 26 in Houston County, for a total length of 10.3 miles. Interstate 75 consists of 3 lanes in each direction throughout the project corridor. The existing inside lanes in both directions will remain, while the center lane and the outside lane in both directions will be replaced with concrete pavement. The existing 10 foot paved inside shoulder is to be replaced with full depth pavement. The outside shoulder will be replaced with full depth pavement, as well as being widened from 10 feet to 12 feet. The existing median ditch will remain. Guardrails along the outside shoulders in the project corridor will be replaced. All work will be performed while maintaining minimum of 2 lanes of traffic in each direction at all times.



PROPOSED
SUPERELEVATED SECTION
SEE PLANS FOR LOCATIONS
TS-02
APPLIES TO:
STA 775+20 TO STA 790+00.00
STA 865+00.00 TO STA 888+66.00
STA 926+11.00 TO STA 939+93.00
STA 1077+19.00 TO STA 1092+57.00
SEE CROSS SECTIONS FOR SUPERELEVATION TRANSITION DETAILS

REVISION DATES		STATE OF GEORGIA DEPARTMENT OF TRANSPORTATION OFFICE: CONSULTANT DESIGN	
		TYPICAL SECTION	
		DATE: 6-2	



Estimate Report for file "I-75 T.O.#30 New Scope ALT B2 - Contra Flow "

Section Pavement					
Item Number	Quantity	Units	Unit Price	Item Description	Cost
310-5120	588400	SY	18.30	GR AGGR BASE CRS, 12 INCH, INCL MATL	10767720.00
402-3113	13535	TN	68.50	RECYCLED ASPH CONC 12.5 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME	927147.50
402-3121	33300	TN	60.10	RECYCLED ASPH CONC 25 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME	2001330.00
402-3190	104724	TN	67.50	RECYCLED ASPH CONC 19 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME	7068870.00
407-0020	217540	LF	2.24	ASPHALT-RUBBER JOINT AND CRACK SEAL, TP S	487289.60
430-1220	310400	SY	64.00	CONT REINF CONC PVMT, CL HES CONC, 12 INCH THK	19865600.00
433-1300	2800	SY	206.00	REINF CONC APPROACH SLAB, INCL BARRIER	576800.00
452-1000	14150	CY	345.00	FULL DEPTH SLAB REPLACEMENT	4881750.00
456-2012	41	GLM	435.00	INDENTATION RUMBLE STRIPS - GROUND-IN-PLACE (CONTINUOUS)	17835.00
461-1000	217540	LF	2.00	RESEALING ROADWAY JOINTS AND CRACKS, TP -	435080.00
609-1000	4720	SY	35.00	REMOVE ROADWAY SLAB	165200.00
Section Sub Total:					\$47,194,622.10

Section Traffic Control					
Item Number	Quantity	Units	Unit Price	Item Description	Cost
150-1000	1	LS	2580000.00	TRAFFIC CONTROL -	2580000.00
150-5010	10	EA	18105.00	TRAFFIC CONTROL, PORTABLE IMPACT ATTENUATOR	181050.00
150-9011	4800	HR	60.00	TRAFFIC CONTROL - WORKZONE LAW ENFORCEMENT (CONTRACTOR BIDS)	288000.00
620-0100	110000	LF	35.00	TEMPORARY BARRIER, METHOD NO. 1	3850000.00
Section Sub Total:					\$6,899,050.00

Section Drainage					
Item Number	Quantity	Units	Unit Price	Item Description	Cost
441-0004	350	SY	77.25	CONC SLOPE PAV, 4 IN	27037.50
441-0204	22000	SY	34.00	PLAIN CONC DITCH PAVING, 4 IN	748000.00
441-0301	4	EA	2480.00	CONC SPILLWAY, TP 1	9920.00
550-1180	1000	LF	33.50	STORM DRAIN PIPE, 18 IN, H 1-10	33500.00
550-1240	200	LF	53.78	STORM DRAIN PIPE, 24 IN, H 1-10	10756.00
550-3515	14	EA	554.80	SAFETY END SECTION 15 IN, STORM DRAIN, 6:1 SLOPE	7767.20
550-3518	5	EA	932.41	SAFETY END SECTION 18 IN, STORM DRAIN, 6:1 SLOPE	4662.05
550-3524	2	EA	1056.80	SAFETY END SECTION 24 IN, STORM DRAIN, 6:1 SLOPE	2113.60
550-4215	55	EA	600.00	FLARED END SECTION 15 IN, STORM DRAIN	33000.00
550-4218	5	EA	682.60	FLARED END SECTION 18 IN, STORM DRAIN	3413.00
573-2006	15000	LF	35.50	UNDDR PIPE INCL DRAINAGE AGGR, 6 IN	532500.00
611-8040	69	EA	933.80	ADJUST DROP INLET TO GRADE	64432.20
615-1000	1200	LF	475.00	JACK OR BORE PIPE -	570000.00
668-2100	12	EA	4380.37	DROP INLET, GP 1	52564.44
Section Sub Total:					\$2,099,665.99

Section Lump					
Item Number	Quantity	Units	Unit Price	Item Description	Cost
201-1500	1	LS	7000000.00	CLEARING & GRUBBING -	7000000.00
210-0100	1	LS	4635000.00	GRADING COMPLETE -	4635000.00
Section Sub Total:					\$11,635,000.00

Section Erosion Control					
Item Number	Quantity	Units	Unit Price	Item Description	Cost

163-0240	1630	TN	220.00	MULCH	358600.00
163-0502	98	EA	550.00	CONSTRUCT AND REMOVE SILT CONTROL GATE, TP 2	53900.00
163-0521	780	EA	360.00	CONSTRUCT AND REMOVE TEMPORARY DITCH CHECKS	280800.00
163-0550	81	EA	247.00	CONSTRUCT AND REMOVE INLET SEDIMENT TRAP	20007.00
165-0030	60240	LF	1.83	MAINTENANCE OF TEMPORARY SILT FENCE, TP C	110239.20
165-0040	780	EA	230.00	MAINTENANCE OF EROSION CONTROL CHECKDAMS/DITCH CHECKS	179400.00
165-0050	500	LF	4.83	MAINTENANCE OF SILT RETENTION BARRIER	2415.00
165-0085	98	EA	313.22	MAINTENANCE OF SILT CONTROL GATE, TP 1	30695.56
165-0105	81	EA	117.00	MAINTENANCE OF INLET SEDIMENT TRAP	9477.00
170-1000	500	LF	19.00	FLOATING SILT RETENTION BARRIER	9500.00
171-0030	120480	LF	3.30	TEMPORARY SILT FENCE, TYPE C	397584.00
441-0204	400	SY	33.76	PLAIN CONC DITCH PAVING, 4 IN	13504.00
446-4000	588408	SY	1.01	NON-WOVEN FILTER FABRIC FULL WIDTH	594292.08
700-6910	163	AC	840.00	PERMANENT GRASSING	136920.00
700-7000	326	TN	60.80	AGRICULTURAL LIME	19820.80
700-7010	408	GL	26.50	LIQUID LIME	10812.00
700-8000	147	TN	317.00	FERTILIZER MIXED GRADE	46599.00
700-8100	8150	LB	2.50	FERTILIZER NITROGEN CONTENT	20375.00
Section Sub Total:					\$2,294,940.64

Section Guardrail					
Item Number	Quantity	Units	Unit Price	Item Description	Cost
610-1055	58400	LF	2.00	REM GUARDRAIL	116800.00
610-1075	92	EA	700.00	REM GUARDRAIL ANCH, ALL TYPES	64400.00
641-1100	434	LF	54.90	GUARDRAIL, TP T	23826.60
641-1200	18000	LF	18.54	GUARDRAIL, TP W	333720.00
641-2100	285	LF	34.00	DBL FACED GUARDRAIL, TP T	9690.00
641-2200	54000	LF	23.54	DBL FACED GUARDRAIL, TP W	1271160.00
641-5001	38	EA	628.00	GUARDRAIL ANCHORAGE, TP 1	23864.00
641-5012	58	EA	1807.50	GUARDRAIL ANCHORAGE, TP 12	104835.00
Section Sub Total:					\$1,948,295.60

Section Signing and Marking					
Item Number	Quantity	Units	Unit Price	Item Description	Cost
632-0003	10	EA	30312.00	CHANGEABLE MESSAGE SIGN, PORTABLE, TYPE 3	303120.00
657-4085	41	GLM	16626.50	PREFORMED PLASTIC SKIP PVMT MKG, 8 IN, CONTRAST (BLACK-WHITE), TP PB	681686.50
657-9210	21	LM	14880.81	WET REFLECTIVE PREFORMED SOLID PAVEMENT MARKINGS, 5 INCH WIDE, WHITE	312497.01
657-9211	21	LM	15309.42	WET REFLECTIVE PREFORMED SOLID PAVEMENT MARKINGS, 5 INCH WIDE, YELLOW	321497.82
Section Sub Total:					\$1,618,801.33

Section Miscellaneous					
Item Number	Quantity	Units	Unit Price	Item Description	Cost
153-1300	1	EA	12908.00	FIELD ENGINEERS OFFICE TP 3	12908.00
Section Sub Total:					\$12,908.00

Section Electric/Power Conduit					
Item Number	Quantity	Units	Unit Price	Item Description	Cost
682-6120	4400	LF	16.33	CONDUIT, RIGID, 2 IN	71852.00
682-6222	54400	LF	7.02	CONDUIT, NONMETL, TP 2, 2 IN	381888.00
682-9010	2	EA	4398.61	SVC POLE RISER	8797.22
682-9020	13	EA	711.10	ELECTRICAL JUNCTION BOX	9244.30
Section Sub Total:					\$471,781.52

Total Estimated Cost: \$74,175,065.18

Granell, Jessica

From: Matthews, Tim [Tim.Matthews@dot.state.ga.us]
Sent: Tuesday, July 17, 2007 9:18 AM
To: Alexander, Angela; Granell, Jessica
Cc: Casey, Andy
Subject: RE: CSNHS-M003-00(243) Dooly County and CSNHS-M003-00(340)

Jessica,

In the original concept, we were uncertain if there was a need for a horizontal and vertical clearance variance. However, it was later determined that we did not have the clearance issues. After discussions between Andy Casey (former PM) and David Painter (FHWA), a decision was made to remove the potential for horizontal and vertical clearance variances via the revised concept report. The revised concept report shows correct in that there are no clearance issues for these projects. Sorry for the confusion on this one. Let me know if you have any other questions or concerns.

Thanks so much,

Tim W. Matthews, E.I.T.

Design Group Manager
Office of Road and Airport Design
Phone: 404-656-5406

From: Alexander, Angela
Sent: Monday, July 16, 2007 4:50 PM
To: Granell, Jessica; Matthews, Tim
Subject: RE: CSNHS-M003-00(243) Dooly County and CSNHS-M003-00(340)

Hi Jessica,

I'm afraid I can't answer your question but I am forwarding your e-mail to the Project Manager for these two projects and asking that he assist you. Please let me know if you need any further assistance.

Thanks

*Angela J. Alexander
State Transportation Planning Administrator
Office: (404) 656-5411
Cell: (404) 895-4945*



GO PACK!!

From: Granell, Jessica [mailto:Jessica.Granell@fhwa.dot.gov]
Sent: Monday, July 16, 2007 3:11 PM
To: Alexander, Angela
Subject: CSNHS-M003-00(243) Dooly County and CSNHS-M003-00(340)

7/23/2007