

D.O.T. 66

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE P. I. No. 0000759, Lincoln County **OFFICE** Preconstruction
CSSTP-0000-00(759)
SR 79 Relocation **DATE** October 25, 2005

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

TO *MBP* SEE DISTRIBUTION

SUBJECT APPROVED REVISED PROJECT CONCEPT REPORT

Attached for your files is the approval for subject project.

MBP/cj

Attachment

DISTRIBUTION:

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Harvey Keepler
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BOARD MEMBER

10/22
DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

DATE September 21, 2005

FROM Alan Smith, ^{DAS} District Design Engineer
TO Margaret B. Pirkle, P.E., Assistant Director of Preconstruction

SUBJECT CSSTP-0000-00 (759) Spur, Lincoln County, P.I. # 0000759
Relocation of SR 79 along CR 278 to SR 43 east of the City of Lincolnton
Revised Project Concept Report

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

The above mentioned project consists of the widening, reconstruction, and relocation of Petersburg Road / CR 278 from SR 43 to SR 79 east of the City of Lincolnton. The proposed project length is 2.0 miles. The proposed typical section shall be 2 - 12' travel lanes with 10' grassed shoulders each side with 4' of each paved.

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

DATE 10/18/05

State Transportation Planning

Hom.

~~Administrator~~

Distribution:

Brian Summers
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Jamie Simpson

Page Two

CSSTP-0000-00 (759) Spur

Lincoln County

Need and Purpose: County Road 278 is a rural major collector and serves as a connector between SR 43 and SR 79. Currently, the roadway consists of 2 - 10' lanes with poor vertical and horizontal alignment on 80' of existing right-of-way. SR 43 is currently experiencing congestion in the City of Lincoln caused by large trucks. The 2010 AADT is 1700 and the 2030 AADT is 2800 with 10% trucks. This project proposes to route these trucks out of the City of Lincoln and ease congestion in the downtown area.

Description of the proposed project: This project is the widening, reconstruction, and relocation of Petersburg Road / CR 278 from SR 43 to SR 79 east of the City of Lincoln. The proposed project length is 2.0 miles. The proposed typical section shall be 2 - 12' travel lanes with 10' grassed shoulders each side with 4' of each paved.

PDP Classification: Minor Major

Federal Oversight: Full Oversight , Exempt , State Funded , or Other

Functional Classification: Rural Major Collector

U. S. Route Number(s): None

State Route Number(s): None

County Road Number(s): 278

Traffic (AADT) as shown in the approved concept:

Current Year: 2010 (1700)

Design Year: 2030 (2800)

Proposed Features to be revised:

Project Termini and Length

Speed Design for Project

Removal of bridge replacement at Soap Creek from concept

Describe the revised feature(s) to be approved:

The project length is now revised to 1.69 miles. The beginning of the project will remain at the same location on SR 43 at MP 12.93 follow most of the alignment of CR 278 until it intersects SR 79 at MP 1.91.

Upon a field investigation of the project, it was discovered that the posted speed was 45 MPH on CR 278 throughout the project limits. The concept currently indicates a posted speed of 55 MPH. This office is requesting to revise the speed design for the project to 45 MPH to ~~match~~^{match} the posted speed. This will lessen the impacts to homes and other structures in the area, avoid conflicts with 2 cemeteries located on either side of CR 278, reduce the amount of earthwork volumes, Right-Of-Way required, staging and would not increase the speed through an existing residential area which will improve safety.

The current concept calls for the bridge on SR 79 over Soap Creek (40' x 240') to be reconstructed. This was being done in order to change the direction of Super elevation of the bridge deck to match the proposed curve in the new alignment of SR 79 Spur. However, the current design is to create a "T" intersection at SR 79 and the proposed SR 79 Spur (CR 278). This design does not require the bridge to be reconstructed since the construction no longer crosses the existing bridge. This bridge was reconstructed in 1993 and has a sufficiency rating of 88.48. It is also located within the Soap Creek wildlife management area and by not replacing it; the project will reduce impacts to the refuge.

Updated Traffic Data (AADT):

Current Year: 2010 (1700)

Design Year: 2030 (2800)

Programmed Schedule:

P.E. 2003

R/W: 2007

Construction: 2011

Revised Cost Estimates:

1. Construction costs including inflation and E&C:
2. Right of Way Cost:
3. Utility Costs:

\$1,857,826

~~\$1,885,825.93~~

\$481,650.00

\$161,000.00

JDE 10/19/2005

Is the project in a Non-Attainment area?

Yes

No

Recommendation:

This office recommends that this concept revision be approved as written.

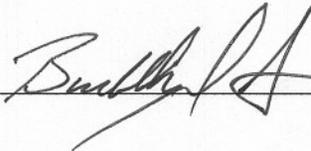
Attachments:

Typical Section

Location Sketch

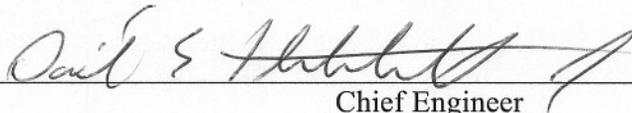
Updated Cost Estimate

Concur:

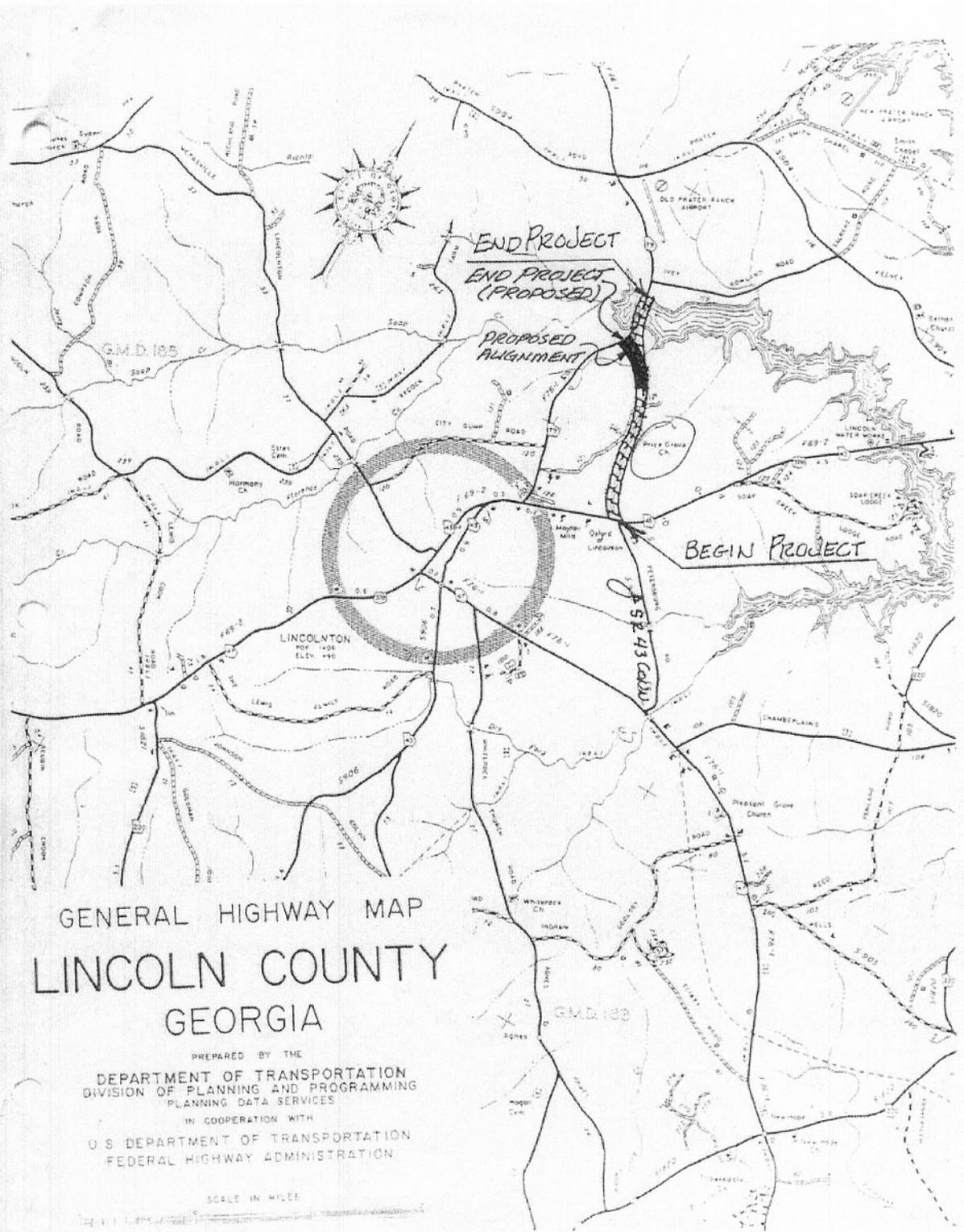


Director of Preconstruction

Approved:



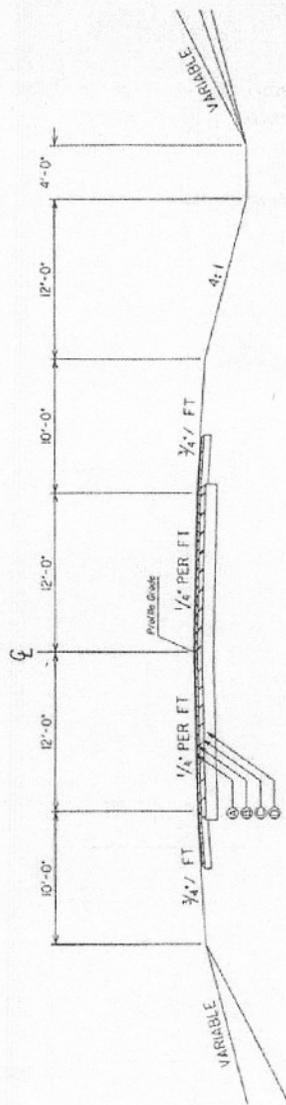
Chief Engineer



GENERAL HIGHWAY MAP
 LINCOLN COUNTY
 GEORGIA

PREPARED BY THE
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF PLANNING AND PROGRAMMING
 PLANNING DATA SERVICES
 IN COOPERATION WITH
 U.S. DEPARTMENT OF TRANSPORTATION
 FEDERAL HIGHWAY ADMINISTRATION

TYPICAL SECTION



STP-0000-00(759)
LINCORN

CSSTP-0000-00 (759) Lincoln County, P.I. # 0000759

Revised Concept Report 9-23-05

Section 1. ROADWAY

Item Number	Quantity	Units	Unit Price	Item Description	Cost
150-1000	1	Lump Sum	50000.00	TRAFFIC CONTROL CSSTP-0000-00 (759)	50000.00
201-1500	1	LS	46000.00	CLEARING & GRUBBING -	46000.00
205-0001	9316	CY	3.22	UNCLASS EXCAV	29997.52
206-0002	10020	CY	4.99	BORROW EXCAV, INCL MATL	49999.80
207-0203	40	CY	35.78	FOUND BK FILL MATL, TP II	1431.20
310-1101	10422	TN	15.00	GR AGGR BASE CRS, INCL MATL	156330.00
318-3000	1275	TN	15.07	AGGR SURF CRS	19214.25
402-1812	500	TN	48.00	RECYCL ASPH CONC LEVELING, INCL BITUM MATL & H LIME	24000.00
402-3112	3715	TN	48.00	RECYCL ASPH CONC 19 mm SUPERPAVE, INCL BITUM MATL & H LIME	178320.00
402-3121	5250	TN	48.00	RECYCL ASPH CONC 25 mm SUPERPAVE, INCL BITUM MATL & H LIME	252000.00
402-3131	2283	TN	48.00	RECYCLED ASPH CONC 9.5 MM SUPERPAVE, GP 2 ONLY, INCL	109584.00
413-1000	2300	GL	0.99	BITUM TACK COAT	2277.00
441-0740	22	SY	23.16	CONCRETE MEDIAN, 4 IN	509.52
446-1002	100	LF	2.66	PVMT REINF FABRIC STRIPS, TP 2, INCL BITUM BINDER	266.00
456-2012	2	GLM	845.60	INDENTATION RUMBLE STRIPS - GROUND-IN-PLACE (CONTINUOUS)	1691.20
500-3101	48	CY	455.02	CLASS A CONCRETE	21840.96
511-1000	3735	LB	0.72	BAR REINF STEEL	2689.20
550-1180	184	LF	30.00	STORM DRAIN PIPE, 18 IN, H 1-10	5520.00
550-1240	152	LF	34.00	STORM DRAIN PIPE, 24 IN, H 1-10	5168.00
550-2180	1300	LF	28.00	SIDE DRAIN PIPE, 18 IN, H 1-10	36400.00
550-2240	320	LF	29.50	SIDE DRAIN PIPE, 24 IN, H 1-10	9440.00
550-3618	36	EA	454.01	SAFETY END SECTION 18 IN, SIDE DRAIN, 6:1 SLOPE	16344.36
550-4218	6	EA	387.43	FLARED END SECTION 18 IN, STORM DRAIN	2324.58
550-4224	8	EA	474.24	FLARED END SECTION 24 IN, STORM DRAIN	3793.92
610-9099	4	LS	2853.00	REM WINGWALLS & PARAPETS, STA -	11412.00
634-1200	58	EA	150.00	RIGHT OF WAY MARKERS	8700.00
Section Sub Total:					\$1,045,253.51

Section 2. EROSION CONTROL

Item Number	Quantity	Units	Unit Price	Item Description	Cost
603-2181	125	SY	34.37	STN DUMPED RIP RAP, TP 3, 18 IN	4296.25
603-7000	125	SY	3.52	PLASTIC FILTER FABRIC	440.00
700-6910	21	AC	736.02	PERMANENT GRASSING	15456.42
700-7000	21	TN	53.88	AGRICULTURAL LIME	1131.48
700-7010	53	GL	17.58	LIQUID LIME	931.74
700-8000	13	TN	236.35	FERTILIZER MIXED GRADE	3072.55
700-8100	3450	LB	1.38	FERTILIZER NITROGEN CONTENT	4761.00
715-2200	3800	SY	1.74	BITUMINOUS TREATED ROVING, WATERWAYS	6612.00
Section Sub Total:					\$36,701.44

Section 3. TEMPORARY EROSION CONTROL

Item Number	Quantity	Units	Unit Price	Item Description	Cost
163-0232	11	AC	450.77	TEMPORARY GRASSING	4958.47
163-0240	315	TN	212.17	MULCH	66833.55
163-0300	4	EA	1032.94	CONSTRUCTION EXIT	4131.76
163-0520	2000	LF	11.73	CONSTRUCT AND REMOVE TEMPORARY PIPE SLOPE DRAIN	23460.00
165-0010	750	LF	1.02	MAINTENANCE OF TEMPORARY SILT FENCE, TP A	765.00
165-0030	811	LF	1.20	MAINTENANCE OF TEMPORARY SILT FENCE, TP C	973.20
165-0101	4	EA	339.66	MAINTENANCE OF CONSTRUCTION EXIT	1358.64
167-1000	2	EA	2903.25	WATER QUALITY MONITORING AND SAMPLING	5806.50
167-1500	18	MO	744.65	WATER QUALITY INSPECTIONS	13403.70
171-0010	3600	LF	1.66	TEMPORARY SILT FENCE, TYPE A	5976.00
171-0030	7200	LF	3.08	TEMPORARY SILT FENCE, TYPE C	22176.00
700-7000	12	TN	53.88	AGRICULTURAL LIME	646.56
700-7010	29	GL	17.58	LIQUID LIME	509.82
700-8000	12	TN	236.35	FERTILIZER MIXED GRADE	2836.20
716-2000	5430	SY	1.13	EROSION CONTROL MATS, SLOPES	6135.90
Section Sub Total:					\$159,971.30

Section 4. HIGHWAY SIGNS

Item Number	Quantity	Units	Unit Price	Item Description	Cost
636-1020	57	SF	13.34	HIGHWAY SIGNS, TP 1 MATL, REFL SHEETING, TP 3	760.38
636-1029	63	SF	20.04	HIGHWAY SIGNS, TP 2 MATL, REFL SHEETING, TP 3	1262.52
636-1030	117	SF	14.91	HIGHWAY SIGNS, TP 2 MATL, REFL SHEETING, TP 4	1744.47
636-2080	336	LF	8.40	GALV STEEL POSTS, TP 8	2822.40
653-0120	8	EA	56.01	THERMOPLASTIC PVMT MARKING, ARROW, TP 2	448.08
653-1501	19600	LF	0.23	THERMOPLASTIC SOLID TRAF STRIPE, 5 IN, WHITE	4508.00
653-1502	19600	LF	0.23	THERMOPLASTIC SOLID TRAF STRIPE, 5 IN, YELLOW	4508.00
653-1704	108	LF	3.30	THERMOPLASTIC SOLID TRAF STRIPE, 24 IN, WHITE	356.40
653-3502	2300	GLF	0.15	THERMOPLASTIC SKIP TRAF STRIPE, 5 IN, YELLOW	345.00
653-6004	64	SY	2.42	THERMOPLASTIC TRAF STRIPING, WHITE	154.88
653-6006	211	SY	2.58	THERMOPLASTIC TRAF STRIPING, YELLOW	544.38
654-1001	101	EA	3.21	RAISED PVMT MARKERS TP 1	324.21
654-1002	15	EA	3.03	RAISED PVMT MARKERS TP 2	45.45
654-1003	178	EA	3.13	RAISED PVMT MARKERS TP 3	557.14
Section Sub Total:					\$18,381.31

Total Estimated Cost: \$1,260,307.56

Subtotal Construction Cost	\$1,260,307.56
E&C Rate 10.0 %	\$126,030.76
Inflation Rate 5.0 % @ 6 Years	\$471,487.62
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Total Construction Cost	\$1,857,825.93
Right Of Way	\$481,650.00
ReImb. Utilities	\$161,000.00
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Grand Total Project Cost	\$2,500,475.93