

D.O.T. 66

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE NH-164-1(24) Clayton-Henry Counties **OFFICE** Preconstruction
P. I. No. 721480
SR 128 Widening and Reconstruction **DATE** March 1, 2005

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

TO *for* SEE DISTRIBUTION

SUBJECT REVISED PROJECT CONCEPT REPORT APPROVAL

Attached for your files is the approval for subject project.

MBP/cj

Attachment

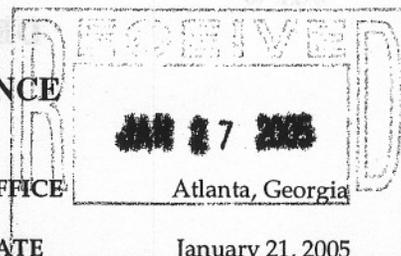
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DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE



FILE NH-164-1(24)
Clayton & Henry Counties
PI # 721480

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

TO Meg Pirkle, P.E., Assistant Director of Preconstruction

SUBJECT **Revised Project Concept Report: Widening and reconstruction of SR 138 from Walt Stevens Road in Clayton County to I-75 in Henry County**

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 approved concept for Project No. NH-164-1(24) in Clayton and Henry Counties consists of the widening and reconstruction of SR 138 beginning at Walt Stephens Road in Clayton County to I-75 in Henry County. The existing roadway is a 2-lane rural section with 10 ft shoulders. The concept typical section for the proposed project is a 4-lane rural section with a 44 ft. depressed median and 10 ft. shoulders. The length of the approved concept is 4.27 miles for the NH Project.

In order to minimize the impacts to adjacent businesses in the vicinity of the interchange, as well as residential areas and businesses within the project limits, and to significantly reduce Right-of-Way costs, it is proposed to revise the approved concept report. The revisions to the approved concept report are as follows:

1. The proposed typical section from Walt Stephens Road in Clayton County to I-75 in Henry County has been revised. The proposed typical section within these limits consists of a 4-lane urban section with a 20 ft. raised median and 10 ft. urban shoulders and sidewalk.
2. The proposed design speed from Walt Stephens Road in Clayton County to I-75 in Henry County has been revised. Due to the future development, traffic projections, and the change in the typical section to an urban shoulder, it is proposed to be reduced speed limit from 55 mph to 45 mph.

The revised 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).

BAS:JLM:JGM:ss
Attachment - Revised Concept Report

State Transportation Planning Administrator

1/25/05

Date

- cc: David Mulling, Project Review Engineer
Harvey Keepler, State Environmental/Location Engineer
Carla Holmes, State Traffic Operations Engineer
Joe Palladi, State Transportation Planning Administrator
Jamie Simpson, Financial Management Administrator
Thomas Howell, Thomaston District Engineer
Bryant Poole, Chamblee District Engineer

REVISED PROJECT CONCEPT REPORT

Need and Purpose: SR 138 is a primary East-West Arterial which provides access to I-75 and I-675 for the City of Jonesboro. Rapidly expanding residential developments located along Fielder Road, SR 138 and Walt Stephens Road have generated high traffic volumes along SR 138. Commercial development has also located along SR 138 near I-75 to serve the growing residential population. This commercial district also contributed to higher traffic volumes on SR 138. The proposed project will provide the increased capacity needed to serve the existing and proposed traffic volumes along SR 138.

Project Location: SR 138 from the Walt Stephens Road to I-75

Project Length: NH Project: 4.27 miles

Description of the Approved Concept: The approved concept for Project No. NH-164-1(24) in Clayton and Henry Counties consists of the widening and reconstruction of SR 138 beginning at Walt Stephens Road in Clayton County and ending at I-75 in Henry County. The existing roadway is a 2-lane rural section with 10 ft shoulders. The concept typical section for the proposed project is a 4-lane rural section with a 44 ft. depressed median and 10 ft. shoulders.

PDP Classification: Project No. NH-164-1(24)
Existing State Route 138
FOS () EXEMPT SF () OTHER ()

Functional Classification: Rural Arterial

U. S. Route Number(s): None

State Route Number(s): 138

Traffic (AADT) as Shown in the Approved Concept:	Current Traffic		Projected Traffic	
	Year	1995	Year	2015
AADT	15250		AADT	25900

Proposed Features To Be Revised:

In order to minimize impacts to adjacent businesses in the vicinity of the interchange, as well as residential areas and businesses within the project limits, and to significantly reduce right-of-way costs, it is proposed to revise the following features of the approved concept report:

1. Typical Section – The typical section in the approved concept report consists of a 4-Lane Rural Divided highway with a 44 ft. depressed median and 10 ft. shoulders (4 ft. paved).
2. Design Speed – The design speed in the approved concept report is 55 mph.

REVISED PROJECT CONCEPT REPORT

Describe the Features To Be Approved:

The revisions to the approved concept report are as follows:

1. Typical Section - The proposed typical section for SR 138 from Walt Stephens to I-75 has been revised. The proposed typical section within these limits consists of a 4-lane urban section with a 20 ft. raised median and 10 ft. urban shoulders and sidewalk.
2. Design Speed - The proposed design speed for SR 138 from Walt Stephens Road to I-75 has been revised. The proposed design speed within these limits has been reduced to 45 mph from 55 mph.

Updated Traffic Data (AADT):

Current Traffic	Projected Traffic
Year 2005	Year 2025
AADT 33,150	AADT 57,700

The traffic data has been revised since approval of the concept report.

Programmed/Schedule:

P.E.:	<u>Underway</u>
R/W:	<u>Underway</u>
Construction:	<u>2005</u>

Revised Cost Estimates:

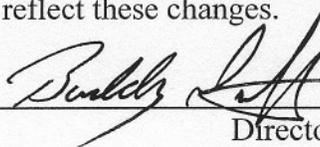
See the attached construction, right-of-way, and utility cost estimates.

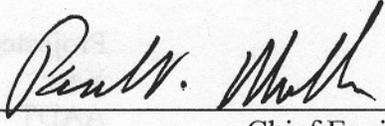
Is This Project Located in a Non-Attainment Area?

Yes (X) No ()

Recommendation:

It is recommended that these changes be approved and that the project estimate be adjusted to reflect these changes.

Concur: 
 Director of Preconstruction

Approve: 
 Chief Engineer

- Attachments:
 Sketch Map
 Revised Cost Estimates
 Traffic Diagrams

Estimate Report for file "Clayton Henry"

Section Roadway					
Item Number	Quantity	Units	Unit Price	Item Description	Cost
150-1000	1.00	LS	750000.00	TRAFFIC CONTROL -	750000.0
150-9011	0.00	HR	46.92	TRAFFIC CONTROL - WORKZONE LAW ENFORCEMENT (CONTRACTOR BIDS)	0.0
153-1300	1.00	EA	49749.21	FIELD ENGINEERS OFFICE TP 3	49749.21
208-0100	277722.00	CY	4.13	IN PLACE EMBANKMENT	1146991.85
310-1101	184176.00	TN	13.88	GR AGGR BASE CRS, INCL MATL	2556362.88
318-3000	10000.00	TN	15.67	AGGR SURF CRS	156700.0
402-1812	1000.00	TN	38.54	RECYCLED ASPH CONC LEVELING, INCL BITUM MATL & H LIME	38540.0
402-3110	19686.00	TN	37.14	RECYCLED ASPH CONC 9.5 MM SUPERPAVE, GP 1 OR 2, INCL BITUM	731138.04
402-3121	82267.00	TN	36.07	RECYCLED ASPH CONC 25 MM SUPERPAVE, GP 1 OR 2, INCL BITUM	2967370.69
402-3190	25323.00	TN	39.07	RECYCLED ASPH CONC 19 MM SUPERPAVE, GP 1 OR 2, INCL BITUM	989369.61
413-1000	3258.00	GL	0.95	BITUM TACK COAT	3095.1
441-0104	28594.00	SY	22.10	CONC SIDEWALK, 4 IN	631927.4
441-0748	20315.00	SY	30.57	CONCRETE MEDIAN, 6 IN	621029.55
441-6222	64698.00	LF	10.66	CONC CURB & GUTTER, 8 IN X 30 IN, TP 2	689680.68
441-6740	41685.00	LF	9.22	CONC CURB & GUTTER, 8 IN X 30 IN, TP 7	384335.7
500-3200	1150.00	CY	267.83	CLASS B CONCRETE	308004.5
632-0003	10.00	EA	8878.47	CHANGEABLE MESSAGE SIGN, PORTABLE, TYPE 3	88784.7
634-1200	465.00	EA	84.47	RIGHT OF WAY MARKERS	39278.55
641-1200	2250.00	LF	11.27	GUARDRAIL, TP W	25357.5
641-5001	6.00	EA	429.03	GUARDRAIL ANCHORAGE, TP 1	2574.18
641-5012	6.00	EA	1387.48	GUARDRAIL ANCHORAGE, TP 12	8324.88
Section Sub Total:					\$12,188,615.03

Section DRAINAGE					
Item Number	Quantity	Units	Unit Price	Item Description	Cost
500-3101	1040.00	CY	426.84	CLASS A CONCRETE	443913.6
500-3200	5.00	CY	267.83	CLASS B CONCRETE	1339.14
501-2000	132322.00	LB	1.00	STR STEEL	132322.0
550-1180	19263.00	LF	27.66	STORM DRAIN PIPE, 18 IN, H 1-10	532814.58
550-1240	5000.00	LF	32.58	STORM DRAIN PIPE, 24 IN, H 1-10	162900.0
550-1300	965.00	LF	41.95	STORM DRAIN PIPE, 30 IN, H 1-10	40481.75
550-1360	165.00	LF	50.66	STORM DRAIN PIPE, 36 IN, H 1-10	8358.9
550-1420	517.00	LF	63.90	STORM DRAIN PIPE, 42 IN, H 1-10	33036.29
550-4218	8.00	EA	393.05	FLARED END SECTION 18 IN, STORM DRAIN	3144.4
550-4224	9.00	EA	470.13	FLARED END SECTION 24 IN, STORM DRAIN	4231.17
550-4230	11.00	EA	643.36	FLARED END SECTION 30 IN, STORM DRAIN	7076.96
550-4236	1.00	EA	863.40	FLARED END SECTION 36 IN, STORM DRAIN	863.4
550-4242	4.00	EA	1009.14	FLARED END SECTION 42 IN, STORM DRAIN	4036.56
610-9099	1.00	LS	2298.58	REM WINGWALLS & PARAPETS, STA . 106+38 LT.	2298.58
610-9099	1.00	LS	2298.58	REM WINGWALLS & PARAPETS, STA. 306+91 RT	2298.58
610-9099	1.00	LS	2298.58	REM WINGWALLS & PARAPETS, STA . 284+45 RT.	2298.58
610-9099	1.00	LS	2298.58	REM WINGWALLS & PARAPETS, STA. 306+91 LT	2298.58
610-9099	1.00	LS	2298.58	REM WINGWALLS & PARAPETS, STA . 284+45 LT.	2298.58
610-9099	1.00	LS	2298.58	REM WINGWALLS & PARAPETS, STA . 105+81 RT.	2298.58
610-9230	1.00	LS	7978.00	REM CLVT, CONCRETE, STA. 106+38	7978.0
611-3030	1.00	EA	1153.92	RECONSTR STORM SEW MANHOLE, TYPE 1	1153.92
668-1100	197.00	EA	1754.06	CATCH BASIN, GP 1	345549.82
668-1110	67.00	LF	170.86	CATCH BASIN, GP 1, ADDL DEPTH	11447.62
668-2100	10.00	EA	1895.79	DROP INLET, GP 1	18957.9
668-2110	4.00	LF	176.06	DROP INLET, GP 1, ADDL DEPTH	704.24
668-4300	3.00	EA	1751.67	STORM SEWER MANHOLE, TP 1	5255.01

668-4311	2.00	LF	202.75	STORM SEWER MANHOLE, TP 1, ADDL DEPTH, CL 1	405.5
Section Sub Total:					\$1,779,762.26

Section TEMPORARY EROSION CONTROL					
Item Number	Quantity	Units	Unit Price	Item Description	Cost
163-0232	38.00	AC	458.11	TEMPORARY GRASSING	17408.18
163-0240	1198.00	TN	194.07	MULCH	232495.86
163-0300	10.00	EA	1062.35	CONSTRUCTION EXIT	10623.5
163-0521	15.00	EA	145.24	CONSTRUCT AND REMOVE TEMPORARY DITCH CHECKS	2178.60
163-0550	257.00	EA	177.85	CONSTRUCT AND REMOVE INLET SEDIMENT TRAP	45707.45
165-0010	4085.00	LF	1.01	MAINTENANCE OF TEMPORARY SILT FENCE, TP A	4125.85
165-0020	20595.00	LF	1.05	MAINTENANCE OF TEMPORARY SILT FENCE, TP B	21624.75
165-0030	200.00	LF	1.29	MAINTENANCE OF TEMPORARY SILT FENCE, TP C	258.0
165-0040	15.00	EA	61.52	MAINTENANCE OF EROSION CONTROL CHECKDAMS/DITCH CHECKS	922.80
165-0101	10.00	EA	350.56	MAINTENANCE OF CONSTRUCTION EXIT	3505.6
165-0105	257.00	EA	80.22	MAINTENANCE OF INLET SEDIMENT TRAP	20616.54
167-1000	2.00	EA	2417.94	WATER QUALITY MONITORING AND SAMPLING	4835.88
167-1500	36.00	MO	822.30	WATER QUALITY INSPECTIONS	29602.8
171-0010	8165.00	LF	1.71	TEMPORARY SILT FENCE, TYPE A	13962.15
171-0020	41190.00	LF	1.67	TEMPORARY SILT FENCE, TYPE B	68787.3
171-0030	400.00	LF	3.15	TEMPORARY SILT FENCE, TYPE C	1260.0
Section Sub Total:					\$477,915.26

Section PERMANENT EROSION CONTROL					
Item Number	Quantity	Units	Unit Price	Item Description	Cost
163-0230	420.00	LB	1.66	TEMPORARY GRASSING	697.19
603-2181	2155.00	SY	35.72	STN DUMPED RIP RAP, TP 3, 18 IN	76976.59
603-7000	2155.00	SY	3.53	PLASTIC FILTER FABRIC	7607.15
700-6910	75.00	AC	742.83	PERMANENT GRASSING	55712.25
700-7000	231.00	TN	57.90	AGRICULTURAL LIME	13374.9
700-7010	200.00	GL	20.29	LIQUID LIME	4058.0
700-8000	74.00	TN	235.83	FERTILIZER MIXED GRADE	17451.42
700-8100	3835.00	LB	1.43	FERTILIZER NITROGEN CONTENT	5484.05
710-9000	250.00	SY	4.41	PERMANENT SOIL REINFORCING MAT	1102.5
715-2200	1630.00	SY	1.82	BITUMINOUS TREATED ROVING, WATERWAYS	2966.6
716-2000	53300.00	SY	1.10	EROSION CONTROL MATS, SLOPES	58630.00
Section Sub Total:					\$244,060.67

Section SIGNING AND MARKING					
Item Number	Quantity	Units	Unit Price	Item Description	Cost
636-1020	423.76	SF	13.09	HIGHWAY SIGNS, TP 1 MATL, REFL SHEETING, TP 3	5547.01
636-1029	0.00	SF	19.97	HIGHWAY SIGNS, TP 2 MATL, REFL SHEETING, TP 3	0.0
636-1031	1157.28	SF	17.30	HIGHWAY SIGNS, TP 1 MATL, REFL SHEETING TP 6	20020.94
636-1032	0.00	SF	26.44	HIGHWAY SIGNS, TP 2 MATL, REFL SHEETING TP 6	0.0
636-2070	1088.00	LF	6.54	GALV STEEL POSTS, TP 7	7115.52
653-0110	11.00	EA	50.86	THERMOPLASTIC PVMT MARKING, ARROW, TP 1	559.46
653-0120	189.00	EA	56.40	THERMOPLASTIC PVMT MARKING, ARROW, TP 2	10659.6
653-0170	24.00	EA	79.44	THERMOPLASTIC PVMT MARKING, ARROW, TP 7	1906.56
653-1501	57489.00	LF	0.25	THERMOPLASTIC SOLID TRAF STRIPE, 5 IN, WHITE	14372.25
653-1502	1215.00	LF	0.23	THERMOPLASTIC SOLID TRAF STRIPE, 5 IN,	279.45

653-1704	491.00	LF	3.18	YELLOW THERMOPLASTIC SOLID TRAF STRIPE, 24 IN, WHITE	1561.38
653-1804	5220.00	LF	1.45	THERMOPLASTIC SOLID TRAF STRIPE, 8 IN, WHITE	7569.0
653-3501	6606.00	GLF	0.14	THERMOPLASTIC SKIP TRAF STRIPE, 5 IN, WHITE	924.84
653-6004	2981.00	SY	2.42	THERMOPLASTIC TRAF STRIPING, WHITE	7214.01
653-6006	2036.00	SY	2.53	THERMOPLASTIC TRAF STRIPING, YELLOW	5151.08
654-1001	236.00	EA	3.20	RAISED PVMT MARKERS TP 1	755.2
654-1003	1197.00	EA	3.19	RAISED PVMT MARKERS TP 3	3818.43
Section Sub Total:					\$87,454.75

Section SIGNAL INSTALLATION					
Item Number	Quantity	Units	Unit Price	Item Description	Cost
647-1000	1.00	LS	73347.86	TRAFFIC SIGNAL INSTALLATION NO. 1	73347.86
647-1000	1.00	LS	58080.86	TRAFFIC SIGNAL INSTALLATION NO. 5	58080.86
647-1000	1.00	LS	39361.32	TRAFFIC SIGNAL INSTALLATION NO.3	39361.32
647-1000	1.00	LS	60203.26	TRAFFIC SIGNAL INSTALLATION NO. 4	60203.26
647-1000	1.00	LS	61905.66	TRAFFIC SIGNAL INSTALLATION NO. 2	61905.66
Section Sub Total:					\$292,898.96

Total Estimated Cost: \$15,070,706.93

Subtotal Construction Cost \$15,070,706.93

E&C Rate 10.0 % \$1,507,070.69

Inflation Rate 0.0 % @ 0.0 Years \$0.00

Total Construction Cost \$16,577,777.63

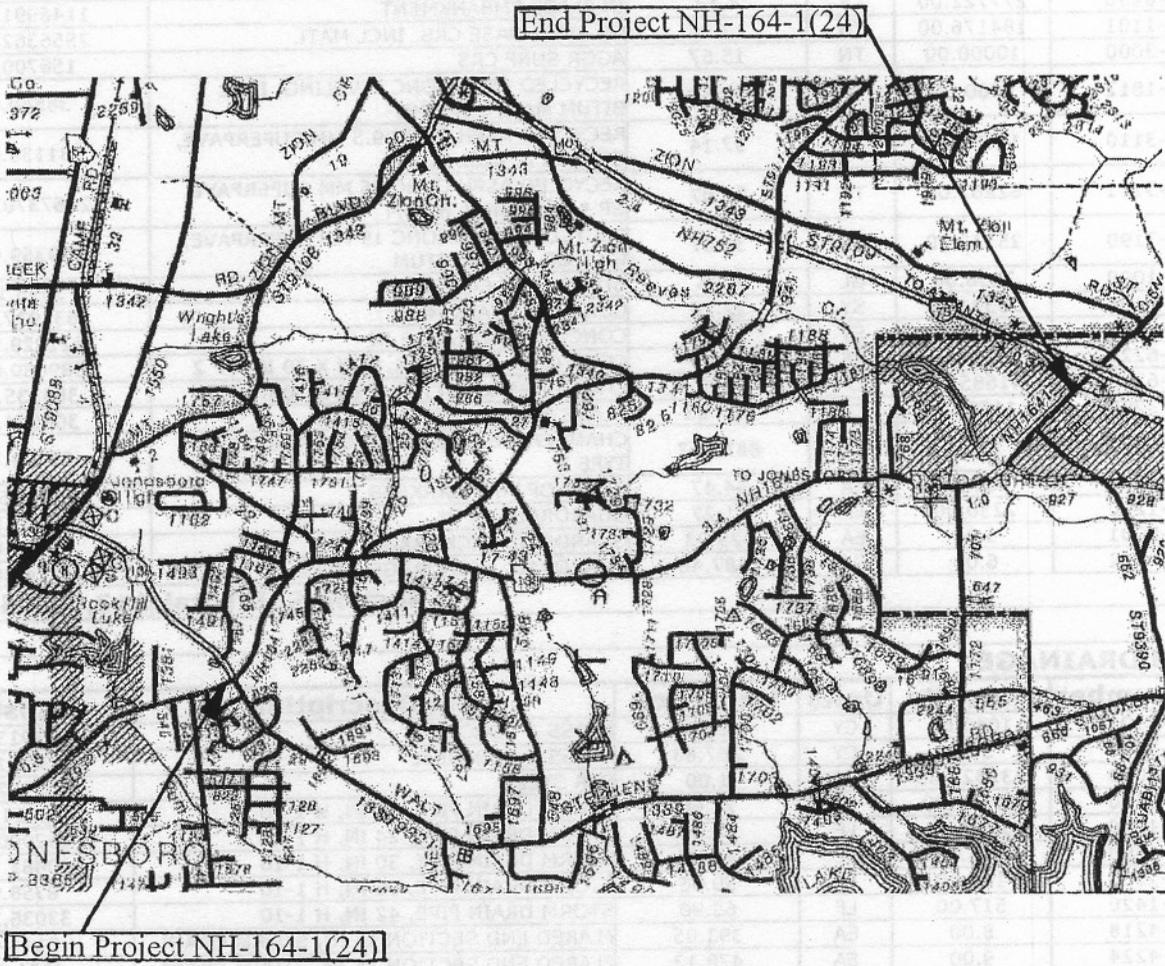
Right Of Way \$15,035,000.00

ReImb. Utilities \$0.00

Grand Total Project Cost \$31,612,777.63

Item Number	Quantity	Units	Unit Price	Item Description	Cost
653-1050	422.26	SF	13.98	CONCRETE SIGN, TP 1 MATL, REFL SHEETING	5907.91
653-1058	0.00	SF	19.93	CONCRETE SIGN, TP 2 MATL, REFL SHEETING	0.0
653-1061	1127.26	SF	17.20	CONCRETE SIGN, TP 1 MATL, REFL SHEETING	19398.24
653-1062	0.00	SF	28.44	CONCRETE SIGN, TP 2 MATL, REFL SHEETING	0.0
653-1070	1088.60	LF	6.24	CONCRETE SIGN, TP 1 MATL, REFL SHEETING	6793.02
653-1110	11.00	EA	20.86	THERMOPLASTIC PVMT MARKING, ARROW, TP	229.46
653-0130	182.00	EA	28.40	THERMOPLASTIC PVMT MARKING, ARROW, TP	5168.80
653-0130	24.00	EA	72.46	THERMOPLASTIC PVMT MARKING, ARROW, TP	1739.04
653-1201	27482.00	LF	0.22	THERMOPLASTIC SOLID TRAF STRIPE, 24 IN, WHITE	6046.04
653-1202	1212.00	LF	0.22	THERMOPLASTIC SOLID TRAF STRIPE, 8 IN, WHITE	266.64

LOCATION SKETCH



PROJECT NH-164-1(24)
Clayton/Henry Co.
P.I NO. 721480