

DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE STP-2837(2) Washington County OFFICE Preconstruction  
P.I. No. 231240 DATE February 18, 1994

*CWH*

FROM C. Wayne Hutto, Assistant Director of Preconstruction

TO SEE DISTRIBUTION

SUBJECT PROJECT CONCEPT REPORT APPROVAL

Attached for your files is the approval for subject project.

CWH/se

Attachment

DISTRIBUTION:

John Lively  
Bob Mustin  
David Studstill  
Herman Griffin  
Toni Dunagan  
Darrell Elwell  
Charles Norris  
Marion Waters



Wayne Shackelford

Page 2

February 8, 1994

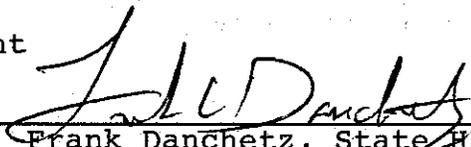
STP-2837(2) Washington County

I recommend this project concept be approved.

HJL/TMR/se

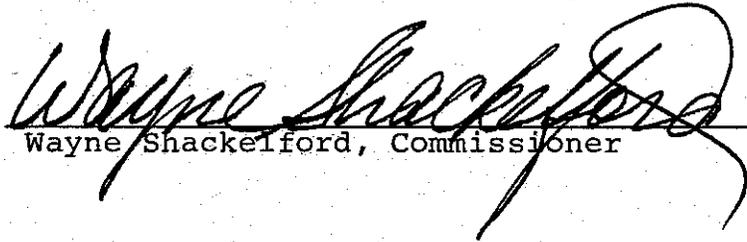
Attachment

CONCUR:



Frank Danchetz, State Highway Engineer

APPROVED:



Wayne Shackelford, Commissioner

**DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA**

**RECEIVED**  
JAN 21 1994

**INTERDEPARTMENT CORRESPONDENCE**

**PRECONSTRUCTION**

**FILE** STP-2837(2) Washington County **OFFICE** Atlanta, Georgia  
P.I. No. 231240  
Passing Lane on SR 24 **DATE** January 20, 1994

**FROM** Bob Mustin, P.E., Project Review Engineer *JTM*

**TO** Hoyt J. Lively, Jr., P.E., Director of Preconstruction

**SUBJECT** PROJECT CONCEPT REPORT

We have reviewed the attached Concept Report for the project listed above.

This report is satisfactory for approval.

The estimated costs of this project are as follows:

Construction	\$650,000
Inflation (5% per year)	\$150,000
E & C (10%)	\$ 80,000
Preliminary Engineering (5%)	\$ 33,000
Right of Way	\$ 5,000
Reimbursable Utilities	\$ 2,500

DTM/kmc

Attachments

c: Charles Norris

*Terry*

DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

RECEIVED

DEC 17 1993

Environment/Location

December 1993

PRECONSTRUCTION

FILE STP-2837 (2) Washington County  
P.I. NO. 231240  
Passing Lanes on SR 24

OFFICE

DATE

FROM David E. Studstill, *DES* P.E., State Environmental/Location Engineer

TO Bob Mustin, Project Review Engineer; Engineering Services

SUBJECT CONCEPT REPORT

The concept report for the above listed project has been reviewed. There is possible involvement with the Red-Cockaded Woodpecker and the Eastern Indigo Snake habitat.

If you have any questions, please let me know.

DES/JSS/jaf

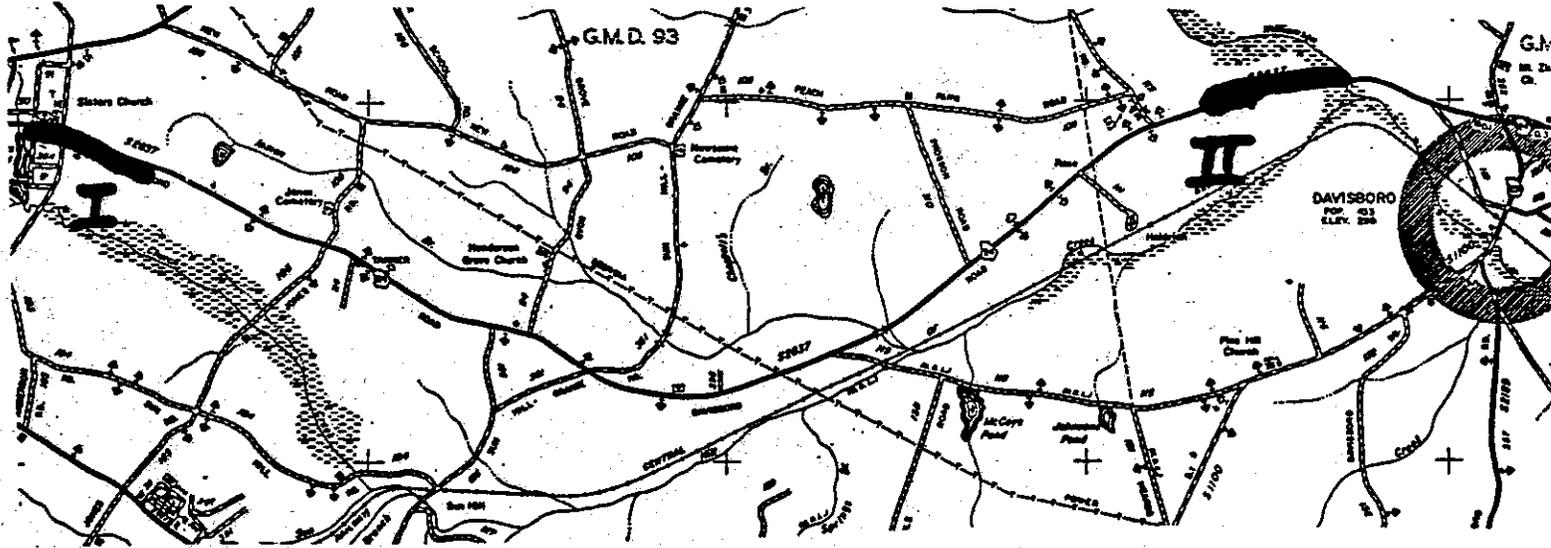
cc: Charles W. Norris

DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA

PROJECT CONCEPT REPORT  
PASSING LANE CONSTRUCTION ON S.R. 24  
BETWEEN SANDERSVILLE AND DAVISBORO

STP-2837 (2)  
WASHINGTON COUNTY

Federal Route No. 2837  
State Route No. 24  
GaDOT P.J.No. 231240  
Federal Aid Route No. NONE



DATE OF REPORT: 11-9-93

RECOMMENDATION AND CONCURRENCE FOR APPROVAL

11-9-93  
DATE  
11-15-93  
DATE  
11-15-93  
DATE  
12-13-93  
DATE  
DATE  
DATE

*Thomas J. Clark*  
DISTRICT DESIGN ENGINEER  
*David G. Griffiths*  
DISTRICT PRECONSTRUCTION ENGINEER  
*Charles W. Thomas Jr.*  
DISTRICT ENGINEER  
*and [Signature]*  
STATE ENVIRONMENTAL ANALYSIS/LOCATION ENGINEER  
STATE TRAFFIC AND SAFETY ENGINEER  
STATE ROAD AND AIRPORT DESIGN ENGINEER

DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA

## INTERDEPARTMENT CORRESPONDENCE

RECEIVED

DEC 02 1993

PRECONSTRUCTION  
Atlanta, GA

Nov. 24, 1993

FILE Project No. STP-2837(2)  
Washington Co.  
P.I. No. 231240

OFFICE

DATE

FROM *MBR for*  
M. G. Waters III, P.E., State Traffic Operations Engineer

TO Bob Mustin, P.E., Project Review Engineer

SUBJECT Project Concept Report Review

We have reviewed the concept report on the above project for the proposed construction of two passing lanes on SR 24 between Sandersville and Davisboro. We believe this concept will improve safety and operational capacity at these locations. We therefore find this report satisfactory for approval.

MGW:CKE:sm

Attachment (signature page)

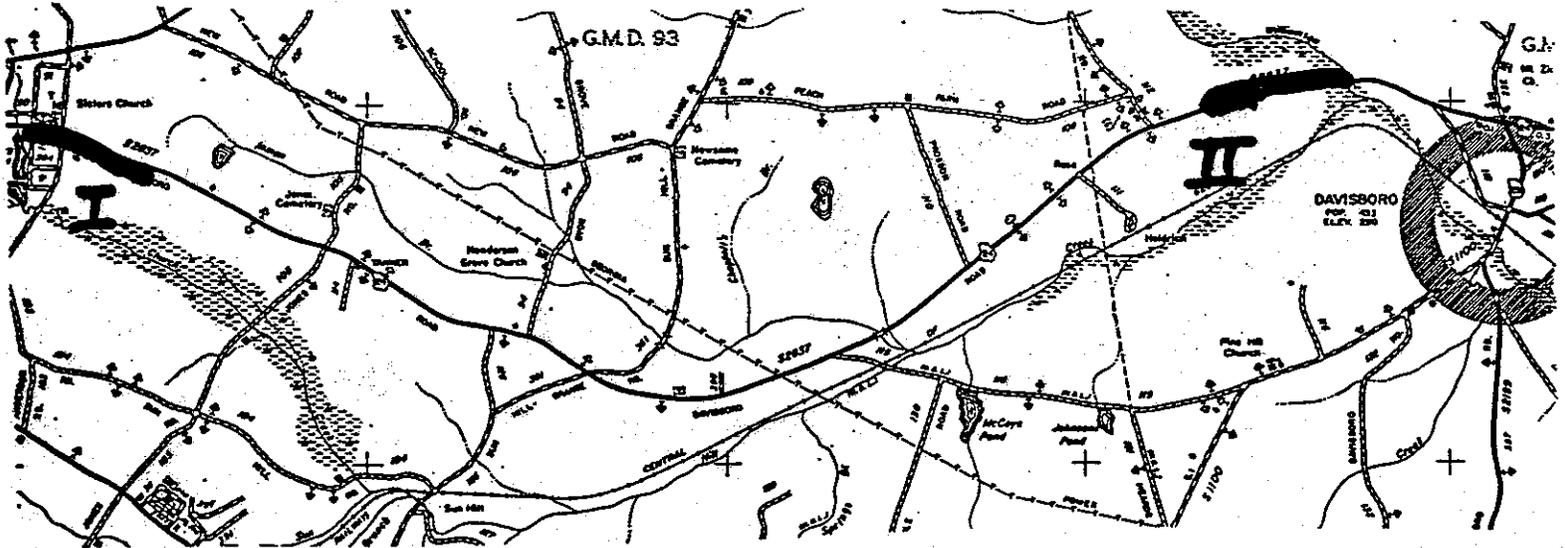
cc: Charles Norris  
Wayne Hutto

DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA

PROJECT CONCEPT REPORT  
PASSING LANE CONSTRUCTION ON S.R. 24  
BETWEEN SANDERSVILLE AND DAVISBORO

STP-2837 (2)  
WASHINGTON COUNTY

Federal Route No: 2837  
State Route No: 24  
GoDOT P.I.No: 231240  
Federal Aid Route No: NONE



DATE OF REPORT: 11-9-93

RECOMMENDATION AND CONCURRENCE FOR APPROVAL

11-9-93

DATE

11-15-93

DATE

11-15-93

DATE

DATE

11/29/93

DATE

DATE

*Thomas J. Clark*

DISTRICT DESIGN ENGINEER

*David G. Hightower*

DISTRICT PRECONSTRUCTION ENGINEER

*Charles W. Thomas, Jr.*

DISTRICT ENGINEER

STATE ENVIRONMENTAL ANALYSIS/LOCATION ENGINEER

*M. G. Waters, III*

STATE TRAFFIC AND SAFETY ENGINEER

*Operations*

STATE ROAD AND AIRPORT DESIGN ENGINEER

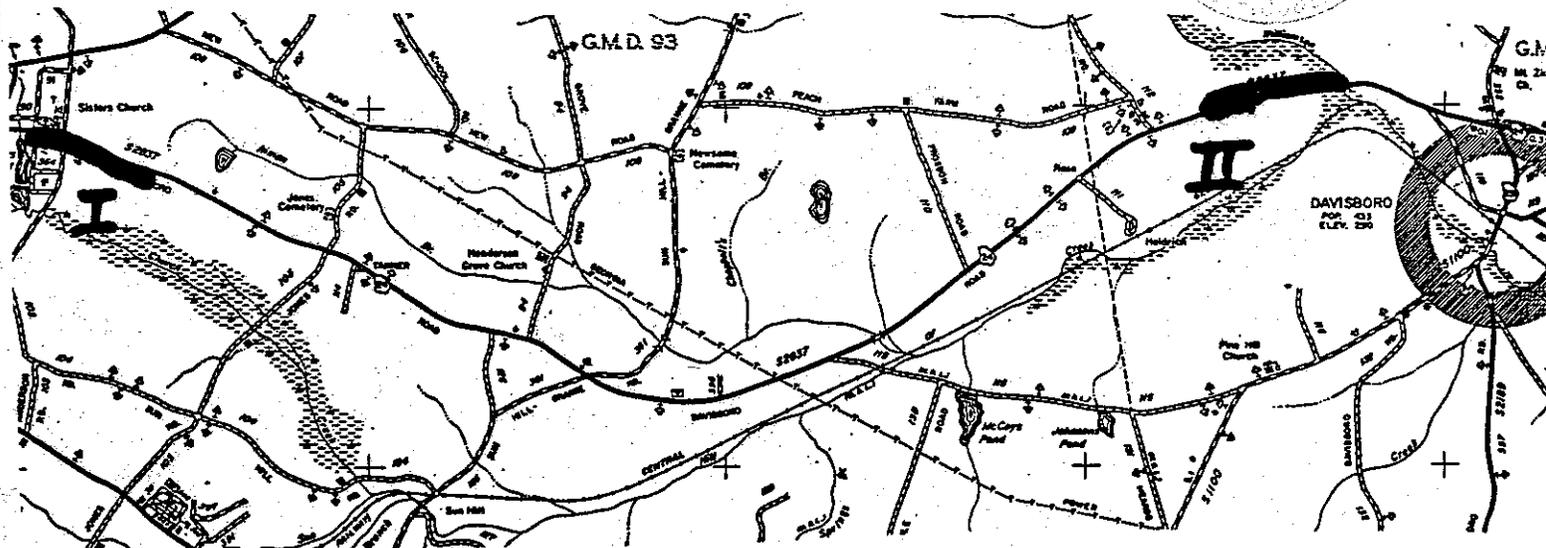
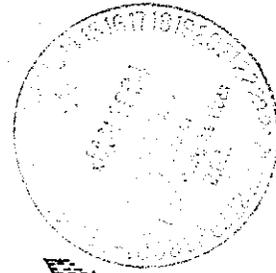


DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA

PROJECT CONCEPT REPORT  
PASSING LANE CONSTRUCTION ON S.R. 24  
BETWEEN SANDERSVILLE AND DAVISBORO

STP-2837 (2)  
WASHINGTON COUNTY

Federal Route No: 2837  
State Route No: 24  
GaDOT P.J.No: 231240  
Federal Aid Route No: NONE



DATE OF REPORT: 11-9-93

RECOMMENDATION AND CONCURRENCE FOR APPROVAL

11-9-93  
DATE  
11-15-93  
DATE  
11-15-93  
DATE  
DATE  
DATE  
DATE

*Thomas J. Clark*  
DISTRICT DESIGN ENGINEER  
*David G. Truffolo*  
DISTRICT PRECONSTRUCTION ENGINEER  
*Charles W. Thomas, Jr.*  
DISTRICT ENGINEER  
STATE ENVIRONMENTAL ANALYSIS/LOCATION ENGINEER  
STATE TRAFFIC AND SAFETY ENGINEER  
STATE ROAD AND AIRPORT DESIGN ENGINEER

**PROJECT CONCEPT REPORT**

**PROJECT NUMBER:** STP-2837 (2)                      **COUNTY:** Washington  
**P. I. Number:** 231240                              **ROUTE:** State Route 24

**PREVIOUS PROJECT NUMBER:** None

**GENERAL DESCRIPTION AND LOCATION:**

This project consists of constructing two passing lanes on State Route 24 in Washington County. Passing lane No. 1 (EB) begins at co. rd. 91 and continues 1.45k eastward on S.R. 24. Passing lane No. 2 (wb) begins 2.74k west of Williamson Swamp Creek then continues to just west of the bridge.

**TRAFFIC:**

	<u>SITE NO. 1</u>	<u>SITE NO. 2</u>
CURRENT ADT:	(1999) 2150	(1999) 1450
PROJECTED ADT:	(2019) 3100	(2019) 2100

**EXISTING TYPICAL SECTION:**

2- 3.6m ASPH concrete lanes with 1.8m grassed earth shoulders.

**EXISTING MAJOR STRUCTURES:**

<u>PASSING LANE NO. 1</u>	<u>PASSING LANE NO. 2</u>
None	Single 0.9m x 0.9m culvert

**STATEMENT OF NEED AND PURPOSE OF PROJECT:**

The purpose of this project is to construct two passing lanes (one eastbound and one westbound) on a two lane State Route in a relatively high traffic volume area and thereby improve the functional capacity and operational safety of the route.

**AIRPORTS:**

There are no airports within four kilometers of this project.

**WETLANDS:**

There will be minor wetland involvement but this is estimated to be less than 0.4 hectares.

**HISTORIC SITES:**

There is a historic graveyard at the beginning of passing lane number 1. This will not be affected by construction.

**UNDERGROUND STORAGE TANKS:**

There are no known underground storage tanks involved with this project.

**LENGTH:**

PASSING LANE NO. 1

1.45k

PASSING LANE NO.2

2.74k

**PDP CLASSIFICATION:**

Minor or existing alignment

**PROJECT STATUS:**

Exempt

**FUNCTIONAL CLASSIFICATION:**

Rural major collector

**ALIGNMENT:**

Minimal radius curve: 436.68m Maximum Grades: 6.5%

POSTED: 90kl/Hour

SPEED DESIGN: 90 kl/Hour

**PROPOSED TYPICAL SECTION:**

3- 3.6m travel lanes with 2.4m graded shoulders

**PROPOSED MAJOR STRUCTURES:**

Retain and extend the existing 0.9m x 0.9m culvert

**TYPE ACCESS:**

Controlled by permit

**TRAFFIC CONTROL DURING CONSTRUCTION:**

Traffic will be maintained on existing roadway during construction with no more than one lane closed at any given time.

**ESTIMATED COST:**

R/W: \$5,000.00  
CONST: \$798,720.00 (INCL. INFLATION 6 YR. @ 4%)  
E & C: (10%) \$79872.00  
TOTAL: \$878592.00  
REIMB UTILITIES: \$2500.00

**PERMIT REQUIRED:**

A standard corps of engineers 404 permit is applicable to this project.

**LEVEL OF ENVIRONMENTAL ANALYSIS:**

A categorical exclusion is applicable to this project.

**LEVEL OF PUBLIC INVOLVEMENT:**

None

**TIME SAVING PROCEDURES APPROPRIATE:**

Yes

**DESIGN VARIANCE REQUIRED:**

None at this time

**ALTERNATES CONSIDERED:**

Alt "A"

Construct two passing lanes while maintaining traffic on the existing alignment with shoulder and slope improvements to meet clear zone requirements.

**OTHER PROJECTS IN AREA:**

STP 2837(1) SPUR Washington P.I. NO: 262480

**CONCEPT TEAM MEETING HELD:**

11-8-93

**PRESENT:** ALAN SMITH, MIKE THOMAS, JIMMY HOBBY, BUFORD SMALL

**FIELD REVIEW HELD:**

11-8-93

**COMMENTS:**

Recommend Alt "A" due to the needs and purpose of this project. The only other alternate is "no build".

**ATTACHMENTS:**

TYPICAL SECTION  
TRAFFIC

ITEM NO.	ITEM DESCRIPTION	UNITS	UNIT COST	QUANTITY	ITEM COST
*** ROADWAY ***					
150-1000	TRAFFIC CONTROL STP-2837 (2)	LIMP	50000.000	1	50000.00
201-1000	CLEARING AND GRUBBING	LIMP	1000.000	46	46000.00
318-3000	AGGR SURF CRS	TN	11.940	425	5074.65
402-0050	RECYCLED ASPH CONC E, BLEND 1, INCL BITUM MAIL	TN	40.783	4095	167006.96
402-0111	RECYCLED ASPH CONC B, GP 1 OR 2, INCL BITUM MAIL & H LIME	TN	26.619	1820	48445.72
402-0120	RECYCLED ASPH CONC BASE, GP 1 OR 2, INCL BITUM MAIL & H LIME	TN	26.818	3640	97617.01
402-1812	RECYCLED ASPH CONC LEVELING, INCL BITUM MAIL & H LIME	TN	28.348	1282	36341.57
413-1000	BITUM TACK COAT	GL	0.725	2650	1922.55
500-3101	CLASS A CONCRETE	CY	222.634	20	4452.67
511-1000	BAR REINF STEEL	LB	0.406	1200	487.25
550-1180	STORM DRAIN PIPE, 18 IN, H 1-10	LF	20.982	420	8812.37
550-1240	STORM DRAIN PIPE, 24 IN, H 1-10	LF	26.748	284	7596.52
550-2180	SIDE DRAIN PIPE, 18 IN, H 1-10	LF	16.502	580	9570.99
550-3618	SAFELY SLOPE END SECTION FOR SIDE DRAINS 18 IN, 6:1	EA	230.000	32	7360.00
550-3624	SAFELY SLOPE END SECTION FOR SIDE DRAINS 24 IN, 6:1	EA	310.000	16	4960.00
573-2006	UNDR PIPE INCL DRAINAGE AGGR, 6 IN	LF	6.977	1000	6976.66
603-2018	SIN DUMPED RIP RAP, TP 1, 18 IN	SY	21.579	200	4315.71
634-1200	RIGHT OF WAY MARKER	EA	42.531	100	4253.09
641-1200	GUARDRAIL, TP W	LF	9.582	300	2874.73
641-5001	GUARDRAIL ANCHORAGE, TP 1	EA	316.326	2	632.65
641-5009	GUARDRAIL ANCHORAGE, TP 9	EA	794.306	2	1588.61
PARTIAL PROJECT COST =					516289.72
*** EROSION CONTROL ***					
700-6001	GRASSING COMPLETE (36 AC.)	LIMP	36000.000	1	36000.00
700-6100	ADDL GRASSING	LB	2.273	150	340.90
700-7000	AGRICULTURAL LIME	TN	33.840	90	3045.63

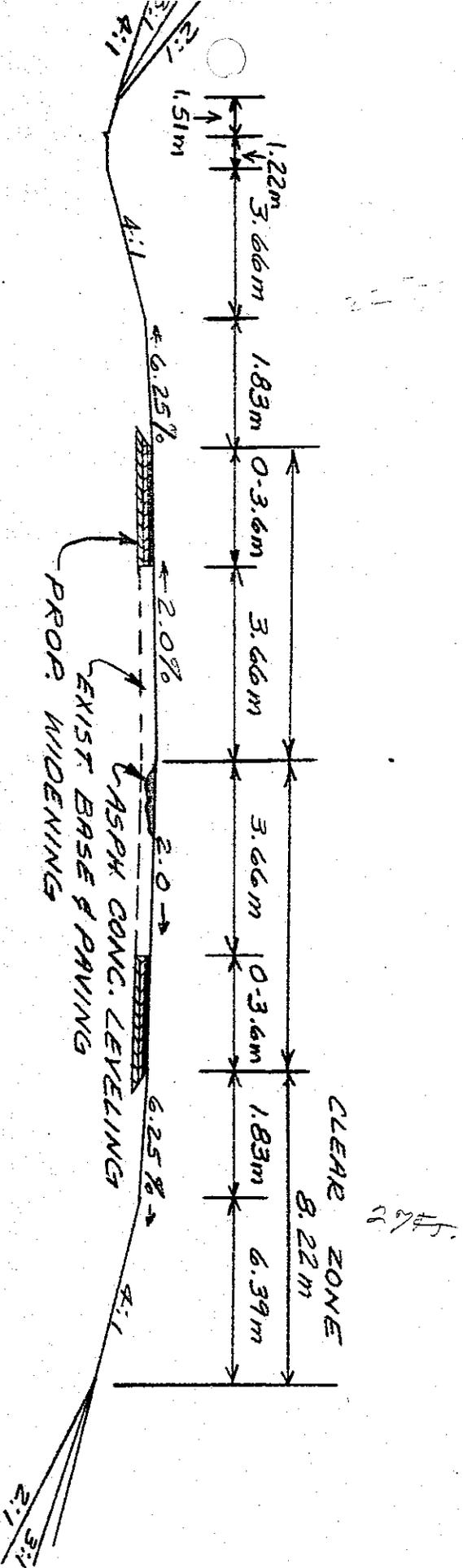
ITEM NO.	ITEM DESCRIPTION	UNITS	UNIT COST	QUANTITY	ITEM COST
700-8000	FERTILIZER MIXED GRADE	TN	186.891	28	5232.94
700-8100	FERTILIZER NITROGEN CONTENT	LB	0.924	1450	1340.08
715-2200	BELUMINOUS TREATED ROVING, WATERWAYS	SQ YD	2.320	8700	20184.00
PARTIAL PROJECT COST =					66143.55
***TEMPORARY EROSION CONTROL****					
163-0010	TEMP. GRASSING SIP-2837(2)	LIMP	7200.000	1	7200.00
163-0012	TEMP. MULCH SIP-2837(2)	LIMP	5100.000	1	5100.00
163-1022	CONSTR, MAINT & REM TEMP PIPE SLOPE DRAIN	LF	8.486	1000	8485.94
163-2051	CONSTR & MAINT BALED STRAW EROSION CHECK	LF	2.461	4380	10779.09
171-0010	TEMPORARY SILT FENCE, TYPE A	LF	2.488	4380	10898.27
PARTIAL PROJECT COST =					42463.30
*** HIGHWAY SIGNS ***					
636-0500	WOOD SIGN POSTS (4" X 4")	LIN FT	5.330	500	2665.00
636-1014	HIGHWAY SIGNS, TP 1 MAIL - REFL SHEETING, TP 1, LEVEL A	SF	10.006	360	3602.09
636-5020	DELINEATORS, TP 2	EA	30.197	24	724.72
653-1501	THERMOPLASTIC SOLID TRAFFIC STRIPE, 5 IN, WHITE	LF	0.280	26000	7283.12
653-1502	THERMOPLASTIC SOLID TRAFFIC STRIPE, 5 IN, YELLOW	LF	0.289	8400	2428.10
653-3502	THERMOPLASTIC SKIP TRAFFIC STRIPE, 5 IN, YELLOW	GLF	0.171	8400	1434.97
654-1001	RAISED PVM MARKERS TP 1	EA	4.615	160	738.37
654-1002	RAISED PVM MARKERS TP 2	EA	4.448	80	355.88
PARTIAL PROJECT COST =					19232.25
100-1000	E & C	DOLLARS	79872.000	1	79872.00
100-1000	INFLATION ( 6 YR. X 4 %)	DOLLARS	154591.000	1	154591.00
PARTIAL PROJECT COST =					234463.00
TOTAL PROJECT COST =					878591.82

641,129

NSC

650,000

# TYPICAL SECTION



SUPERELEVATION SHALL BE IN ACCORDANCE WITH STD. 9028-C

STD-2837(2)  
 WASHINGTON CO.  
 P. I. NO. 231240

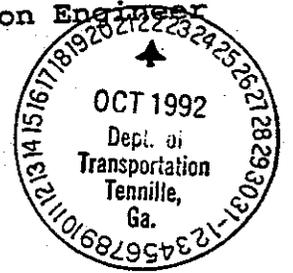
**DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA**

**INTERDEPARTMENT CORRESPONDENCE**

**FILE** STP-2837(2), WASHINGTON COUNTY **OFFICE** Environment/Location  
 PI# 231240 **DATE** October 20, 1992

*DS*  
**FROM** David Studstill, P.E., State Environmental/Location Engineer  
**TO** Edwin Thompson, P.E., District Engineer

**SUBJECT** TRAFFIC ASSIGNMENT FOR S.R. 24



We are furnishing estimated traffic assignments for the above project as follows:

	SITE 1	SITE 2
1999 AADT=	2150	1450
2019 AADT=	3100	2100
K=	10%	10%
D=	60%	60%
T=	5%	5%
24 HR. T=	7%	7%
S.U.=	4%	4%
Comb.=	3%	3%

A project location map is attached.

DS/EKP

Attachment

*(4) For your FEATHER HANDLING ON THE CONCEPT REPORT - CWN*

- DISTRICT TWO  
 10 22  
 102242
- (1) Dist Engr
  - (1) Off Engr
  - (1) Auditors
  - (1) Constr
  - (1) State Aid
  - (1) Estimator
  - (1) Adm Off
  - (1) Precons *CWN*
  - (1) Sched *DS*
  - (1) Design *DS*
  - (1) Survey
  - (1) Dist R/W
  - (1) R/W
  - (1) Photo
  - (1) T & S
  - (1) EEO
  - (1) Safety
  - (1) Maint
  - (1) Utilities
  - (1) Mats
  - (1) Pub Trans
- COPY:

DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA

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## INTERDEPARTMENT CORRESPONDENCE

FILE STP-2837(2) Washington County  
P.I. No. 231240

OFFICE Preconstruction

DATE January 6, 1994

FROM C. Wayne Hutto, Assistant Director of Preconstruction R

TO Thomas L. Clark, District Design Engineer - Tennille

SUBJECT PROJECT CONCEPT REPORT

After our conversation on January 5, 1994, I realized that I still needed a review of the concept by Engineering Services. David Mulling of that office said he had been waiting on a cost estimate from Tennille since his copy of the concept had it omitted. He agreed to just use the cost estimate from my copy and then I realized his copy was not the up to date corrected concept.

Therefore, I believe it would be best if you resubmit the concept to Engineering Services and they will send it to me after their review.

A true revision is only after the concept has had management approval and it can be sent to just this office with a signature sheet ready for management approval. All other concepts must go through Engineering Services first.

We will process the concept as soon as you return it. If you have any questions, please call.

CWH/TMR/se

Attachment

DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE STP-2837(2) WASHINGTON P.I. NO. 231240 OFFICE TENNILLE, GA.  
 DATE 4-JAN-1994  
 FROM THOMAS L. CLARK, <sup>DAS</sup> DISTRICT DESIGN ENGINEER, TENNILLE  
 TO JAMES KENNERLY, STATE ROAD AND AIRPORT DESIGN ENGINEER, ATLANTA  
 ATTENTION: MILTON WHITE  
 SUBJECT <sup>RESUBMITTED</sup> REVISED PROJECT CONCEPT REPORT

RECEIVED  
JAN 05 1994  
PRECONSTRUCTION

WE ARE SENDING TO YOU ATTACHED WITH THIS LETTER THE REVISED PROJECT CONCEPT REPORT IN ACCORDANCE WITH YOUR REVIEW FOR APPROVAL ON THE ABOVE MENTIONED PROJECT.

IF ANY FURTHER ASSISTANCE IS NEEDED PLEASE NOTIFY ALAN SMITH AT GIST:328-4641.

CC: WAYNE HUTTO / TERRY ROGERS

CWN:TLC;DAS



\*\*MAKE DOT BETTER\*\*

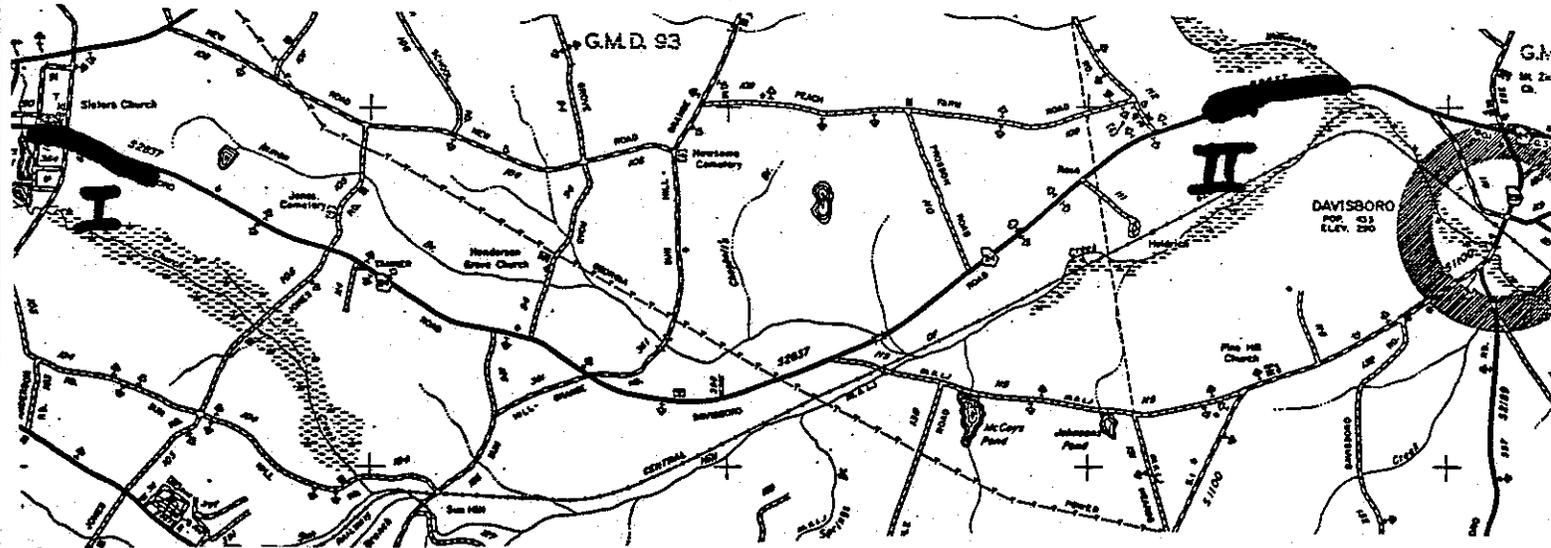
# DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA

## PROJECT CONCEPT REPORT

### PASSING LANE CONSTRUCTION ON S.R. 24 BETWEEN SANDERSVILLE AND DAVISBORO

STP-2837 (2)  
WASHINGTON COUNTY

Federal Route No: 2837  
 State Route No: 24  
 GaDOT P.I. No: 231240  
 Federal Aid Route No: NONE



DATE OF REPORT: 11-9-93

RECOMMENDATION AND CONCURRENCE FOR APPROVAL

11-9-93  
 \_\_\_\_\_  
 DATE

11-15-93  
 \_\_\_\_\_  
 DATE

11-15-93  
 \_\_\_\_\_  
 DATE

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 DATE

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 DATE

\_\_\_\_\_  
 DATE

*Thomas J. Clark*  
 \_\_\_\_\_  
 DISTRICT DESIGN ENGINEER

*David G. Huff*  
 \_\_\_\_\_  
 DISTRICT PRECONSTRUCTION ENGINEER

*Charles W. Harris, Jr.*  
 \_\_\_\_\_  
 DISTRICT ENGINEER

\_\_\_\_\_  
 STATE ENVIRONMENTAL ANALYSIS/LOCATION ENGINEER

\_\_\_\_\_  
 STATE TRAFFIC AND SAFETY ENGINEER

\_\_\_\_\_  
 STATE ROAD AND AIRPORT DESIGN ENGINEER

**PROJECT CONCEPT REPORT**

**PROJECT NUMBER:** STP-2837 (2)

**COUNTY:** Washington

**P. I. Number:** 231240

**ROUTE:** State Route 24

**PREVIOUS PROJECT NUMBER:** None

**GENERAL DESCRIPTION AND LOCATION:**

This project consists of constructing two passing lanes on State Route 24 in Washington County. Passing lane No. 1 (EB) begins at co. rd. 91 and continues 1.45k eastward on S.R. 24. Passing lane No. 2 (wb) begins 2.74k west of Williamson Swamp Creek then continues to just west of the bridge.

**TRAFFIC:**

	<u>SITE NO. 1</u>	<u>SITE NO. 2</u>
CURRENT ADT:	(1999) 2150	(1999) 1450
PROJECTED ADT:	(2019) 3100	(2019) 2100

**EXISTING TYPICAL SECTION:**

2- 3.6m ASPH concrete lanes with 1.8m grassed earth shoulders.

**EXISTING MAJOR STRUCTURES:**

<u>PASSING LANE NO. 1</u>	<u>PASSING LANE NO.2</u>
None	Single 0.9m x 0.9m culvert

**STATEMENT OF NEED AND PURPOSE OF PROJECT:**

The purpose of this project is to construct two passing lanes (one eastbound and one westbound) on a two lane State Route in a relatively high traffic volume area and thereby improve the functional capacity and operational safety of the route.

**AIRPORTS:**

There are no airports within four kilometers of this project.

**WETLANDS:**

There will be minor wetland involvement but this is estimated to be less than 0.4 hectares.

**HISTORIC SITES:**

There is a historic graveyard at the beginning of passing lane number 1. This will not be affected by construction.

**UNDERGROUND STORAGE TANKS:**

There are no known underground storage tanks involved with this project.

**LENGTH:**

PASSING LANE NO. 1  
1.45k

PASSING LANE NO.2  
2.74k

**PDP CLASSIFICATION:**

Minor or existing alignment

**PROJECT STATUS:**

Exempt

**FUNCTIONAL CLASSIFICATION:**

Rural major collector

**ALIGNMENT:**

Minimal radius curve: 436.68m Maximum Grades: 6.5%

POSTED: 90kl/Hour SPEED DESIGN: 90 kl/Hour

**PROPOSED TYPICAL SECTION:**

3- 3.6m travel lanes with 2.4m graded shoulders

**PROPOSED MAJOR STRUCTURES:**

Retain and extend the existing 0.9m x 0.9m culvert

**TYPE ACCESS:**

Controlled by permit

**TRAFFIC CONTROL DURING CONSTRUCTION:**

Traffic will be maintained on existing roadway during construction with no more than one lane closed at any given time.

**ESTIMATED COST:**

R/W: \$5,000.00  
CONST: \$798,720.00 (INCL. INFLATION 6 YR. @ 4%)  
E & C: (10%) \$79872.00  
TOTAL: \$878592.00  
REIMB UTILITIES: \$2500.00

**PERMIT REQUIRED:**

A standard corps of engineers 404 permit is applicable to this project.

**LEVEL OF ENVIRONMENTAL ANALYSIS:**

A categorical exclusion is applicable to this project.

**LEVEL OF PUBLIC INVOLVEMENT:**

None

**TIME SAVING PROCEDURES APPROPRIATE:**

Yes

**DESIGN VARIANCE REQUIRED:**

None at this time

**ALTERNATES CONSIDERED:**

Alt "A"

Construct two passing lanes while maintaining traffic on the existing alignment with shoulder and slope improvements to meet clear zone requirements.

**OTHER PROJECTS IN AREA:**

STP 2837(1) SPUR Washington P.I. NO: 262480

**CONCEPT TEAM MEETING HELD:**

11-8-93

**PRESENT:** ALAN SMITH, MIKE THOMAS, JIMMY HOBBY, BUFORD SMALL

**FIELD REVIEW HELD:**

11-8-93

**COMMENTS:**

Recommend Alt "A" due to the needs and purpose of this project. The only other alternate is "no build".

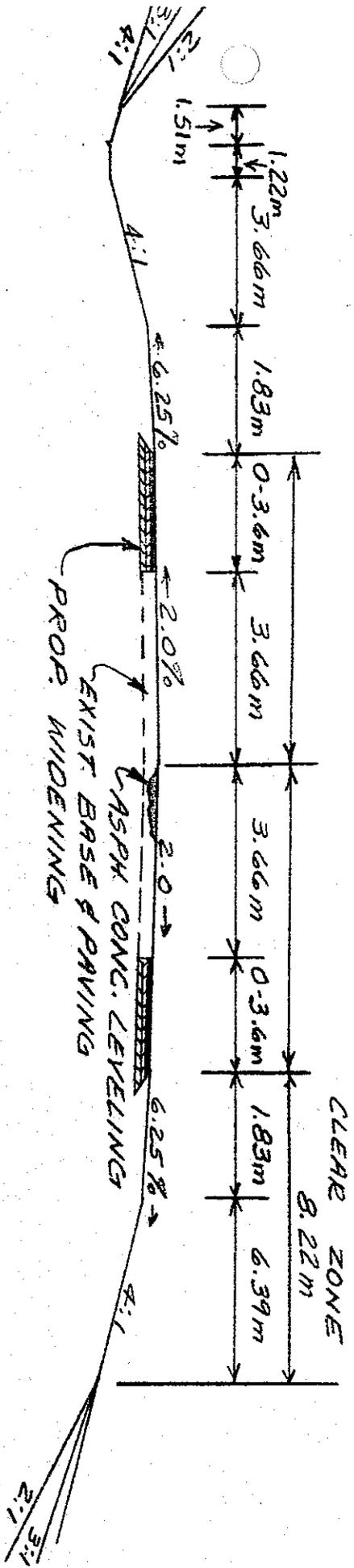
**ATTACHMENTS:**

TYPICAL SECTION  
TRAFFIC

ITEM NO.	ITEM DESCRIPTION	UNITS	UNIT COST	QUANTITY	ITEM COST
*** ROADWAY ***					
150-1000	TRAFFIC CONTROL SIP-2837 (2)	IIMP	50000.000	1	50000.00
201-1000	CLEARING AND GRUBBING	IIMP	1000.000	46	46000.00
318-3000	AGGR SURF CRS	TN	11.940	425	5074.65
402-0050	RECYCLED ASPH CONC E, BLEND 1, INCL BITUM MAIL	TN	40.783	4095	167006.96
402-0111	RECYCLED ASPH CONC B, GP 1 OR 2, INCL BITUM MAIL & H LIME	TN	26.619	1820	48445.72
402-0120	RECYCLED ASPH CONC BASE, GP 1 OR 2, INCL BITUM MAIL & H LIME	TN	26.818	3640	97617.01
402-1812	RECYCLED ASPH CONC LEVELING, INCL BITUM MAIL & H LIME	TN	28.348	1282	36341.57
413-1000	BITUM TACK COAT	GL	0.725	2650	1922.55
500-3101	CLASS A CONCRETE	CY	222.634	20	4452.67
511-1000	BAR REINF STEEL	LB	0.406	1200	487.25
550-1180	STORM DRAIN PIPE, 18 IN, H 1-10	LF	20.982	420	8812.37
550-1240	STORM DRAIN PIPE, 24 IN, H 1-10	LF	26.748	284	7596.52
550-2180	SIDE DRAIN PIPE, 18 IN, H 1-10	LF	16.502	580	9570.99
550-3618	SAFETY SLOPE END SECTION FOR SIDE DRAINS 18 IN, 6:1	EA	230.000	32	7360.00
550-3624	SAFETY SLOPE END SECTION FOR SIDE DRAINS 24 IN, 6:1	EA	310.000	16	4960.00
573-2006	UNDR PIPE INCL DRAINAGE AGGR, 6 IN	LF	6.977	1000	6976.66
603-2018	SIN DUMPED RIP RAP, TP 1, 18 IN	SY	21.579	200	4315.71
634-1200	RIGHT OF WAY MARKER	EA	42.531	100	4253.09
641-1200	GUARDRAIL, TP W	LF	9.582	300	2874.73
641-5001	GUARDRAIL ANCHORAGE, TP 1	EA	316.326	2	632.65
641-5009	GUARDRAIL ANCHORAGE, TP 9	EA	794.306	2	1588.61
				PARTIAL PROJECT COST =	516289.72
*** EROSION CONTROL ***					
700-6001	GRASSING COMPLETE (36 AC.)	IIMP	36000.000	1	36000.00
700-6100	ADDL GRASSING	LB	2.273	150	340.90
700-7000	AGRICULTURAL LIME	TN	33.840	90	3045.63

ITEM NO.	ITEM DESCRIPTION	UNITS	UNIT COST	QUANTITY	ITEM COST
700-8000	FERTILIZER MIXED GRADE	TN	186.891	28	5232.94
700-8100	FERTILIZER NITROGEN CONTENT	LB	0.924	1450	1340.08
715-2200	BITUMINOUS TREATED ROVING, WATERWAYS	SQ YD	2.320	8700	20184.00
PARTIAL PROJECT COST =					66143.55
***TEMPORARY EROSION CONTROL***					
163-0010	TEMP. GRASSING SIP-2837(2)	LIMP	7200.000	1	7200.00
163-0012	TEMP. MULCH SIP-2837(2)	LIMP	5100.000	1	5100.00
163-1022	CONSTR, MAINT & REM TEMP PIPE SLOPE DRAIN	LF	8.486	1000	8485.94
163-2051	CONSTR & MAINT BALED STRAW EROSION CHECK	LF	2.461	4380	10779.09
171-0010	TEMPORARY SILT FENCE, TYPE A	LF	2.488	4380	10898.27
PARTIAL PROJECT COST =					42463.30
*** HIGHWAY SIGNS ***					
636-0500	WOOD SIGN POSTS (4" X 4")	LIN FT	5.330	500	2665.00
636-1014	HIGHWAY SIGNS, TP 1 MAIL - REFL SHEETING, TP 1, LEVEL A	SF	10.006	360	3602.09
636-5020	DELINEATORS, TP 2	EA	30.197	24	724.72
653-1501	THERMOPLASTIC SOLID TRAFFIC STRIPE, 5 IN, WHITE	LF	0.280	26000	7283.12
653-1502	THERMOPLASTIC SOLID TRAFFIC STRIPE, 5 IN, YELLOW	LF	0.289	8400	2428.10
653-3502	THERMOPLASTIC SKIP TRAFFIC STRIPE, 5 IN, YELLOW	GLF	0.171	8400	1434.97
654-1001	RAISED PVM MARKERS TP 1	EA	4.615	160	738.37
654-1002	RAISED PVM MARKERS TP 2	EA	4.448	80	355.88
PARTIAL PROJECT COST =					19232.25
100-1000	E & C	DOLLARS	79872.000	1	79872.00
100-1000	INFLATION ( 6 YR. X 4 %)	DOLLARS	154591.000	1	154591.00
PARTIAL PROJECT COST =					234463.00
TOTAL PROJECT COST =					878591.82

TYPICAL SECTION



SUPERELEVATION SHALL BE IN ACCORDANCE WITH STD. 9028-C

STP-2837 (2)  
 WASHINGTON CO.  
 P.I. NO. 231240

DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA

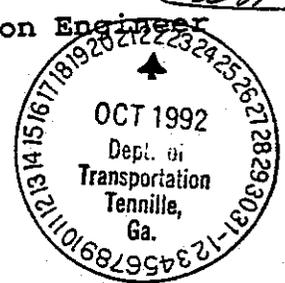
INTERDEPARTMENT CORRESPONDENCE

FILE STP-2837(2), WASHINGTON COUNTY OFFICE Environment/Location  
PI# 231240 DATE October 20, 1992

FROM *DS* David Studstill, P.E., State Environmental/Location Engineer

TO Edwin Thompson, P.E., District Engineer

SUBJECT TRAFFIC ASSIGNMENT FOR S.R. 24



We are furnishing estimated traffic assignments for the above project as follows:

	SITE 1	SITE 2
1999 AADT=	2150	1450
2019 AADT=	3100	2100
K=	10%	10%
D=	60%	60%
T=	5%	5%
24 HR. T=	7%	7%
S.U.=	4%	4%
Comb.=	3%	3%

A project location map is attached.

DS/EKP

Attachment

*(4) For your FURTHER HANDLING ON THE CONCEPT REPORT - CWN*

- DISTRICT TWO  
10 22
- (1) Dist Engr
  - (1) Off Engr
  - (1) Auditors
  - (1) Constr
  - (1) State Aid
  - (1) Estimator
  - (1) Adm Off
  - (2) Preconst
  - (3) Sched *CWN*
  - (4) Design *DS*
  - (1) Survey
  - (1) Dist R/W
  - (1) R/W
  - (1) Photo
  - (1) T & S
  - (1) EEO
  - (1) Safety
  - (1) Maint
  - (1) Utilities
  - (1) Mats
  - (1) Pub Trans

COPY: