

D.O.T. 66

DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA

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INTERDEPARTMENT CORRESPONDENCE

**FILE** P. I. Nos. 522190- / 522185-, Toombs County **OFFICE** Preconstruction  
EDS-545(25) / BHN-038-1(36)  
US 1/SR 4 Widening and Reconstruction **DATE** July 20, 2006

**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:**

Brian Summers  
Harvey Keepler  
Ken Thompson  
Jamie Simpson  
Michael Henry  
Keith Golden  
Joe Palladi (file copy)  
Babs Abubakari  
Glenn Durrence  
**BOARD MEMBER**

DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA

INTERDEPARTMENTAL CORRESPONDENCE

JUL 12 2006

FILE EDS-545(25), Toombs County  
BHN-038-1(36), Toombs County  
PI # 522190, 522185

OFFICE Environment/Location

DATE June 29, 2006

FROM *MDK/DRP*  
Harvey D. Keepler, State Environmental/Location Engineer

TO Meg Pirkle, Assistant Director of Preconstruction

SUBJECT Revised Project Concept Report – US 1/SR 4 Improvements

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

For EDS-545(25), the proposed changes to the approved concept would be revisions to the typical section and project termini. The typical section and project termini would be revised due to a recently approved revision in the project termini of EDS-545(26).

Project BHN-038-1(36) is the proposed replacement of the existing US 1/SR 4 bridges at Rocky Creek and Little Rocky Creek. The proposed revisions to northern terminus for EDS-545(25) if approved would move the replacement of the existing US 1/SR 4 bridge at Little Rocky Creek outside the project limits of EDS-545(25).

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

DATE 7/10/06 *Joseph P. Palladi*  
State Transportation Planning Administrator

*Upon review PI No 552190 is not listed in the present 06-08 STIP; however TPRO indicates R/W to be in 08. Hence the 07-09 STIP should contain the R/W phase. The 07-09 STIP is under development.*

- Brian Summers – State Project Review Engineer
- Keith Golden – State Traffic Safety and Design Engineer
- Joe Palladi – State Transportation Planning Administrator
- Jamie Simpson – State Transportation Financial Management Administrator
- Babs Abubakari – State Consultant Design Engineer
- Glenn Durrence – Jesup District Engineer
- Paul Liles – State Bridge & Structural Design Engineer

**DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA**

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**INTERDEPARTMENTAL CORRESPONDENCE**

**FILE:** EDS-545(25) Toombs **OFFICE:** Engineering Services  
P.I. No. 522190  
U.S. 1/S.R. 4 Widening and Reconstruction

**DATE:** July 10, 2006

**FROM:** Brian K. Summers, P.E., Project Review Engineer *REW*

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

**SUBJECT: REVISED CONCEPT REPORT**

We have reviewed the Revised Concept Report submitted July 6, 2006, and have the following comment.

- The unit costs shown on the Cost Estimate have been updated to reflect the costs that are more in line with current trends.

The costs for this project are:

Construction	\$9,148,715
Inflation	\$937,743
E & C	\$1,008,646
Reimbursable Utilities	\$366,000
Right of Way	\$3,247,100

REW

c: Harvey Keeper, Attn: Keith Posey/Andrick Anderson

# REVISED PROJECT CONCEPT REPORT

## EDS-545(25) & BHN-038-1(36) TOOMBS COUNTY

### PI# 522190 & 522185

**Need and Purpose:** US 1/SR 4 is the major north-south corridor in mid-east Georgia and is part of the Governor's Road Improvement Program. The proposed multi-laning of US 1/SR 4 would help to decrease congestion and enhance the traffic flow, while improving the operational characteristics and the safety along US 1/SR 4.

The US 1/SR 4 Improvements are part of the Governor's Road Improvement Program (GRIP). GRIP was initiated in the 1980's to address the importance of stimulating economic growth via an improved transportation network. It identified a system of economic development highways that consist of existing primary routes, plus additional truck connector routes. The system would place 98 percent of the state's population within 20 miles of a multi-lane highway. It would provide access for oversized trucks to cities having populations between 2,000 people and 5,000 people. Among the many benefits of such a system, areas lagging in growth would be provided greater opportunities to attract industry, business, and jobs.

**Project Location:** The proposed concept would be located along US 1/SR 4 in Toombs County, beginning just north of the existing SR 15/SR 29 intersection with US 1/SR 29 (milepost 12.1) and ending the southern city limits of Lyons (milepost 17.9). The length of the project would be 5.8 miles.

**Description of the approved concept:** The approved concept for EDS-545(25) in Toombs County is proposed to widen and reconstruct US 1/SR 4 from SR 15/SR 29 northward to the southern city limits of Lyons in Toombs County. The concept would begin approximately 650 feet north of the existing intersection of SR 15/SR 29 and US 1/SR 4, coinciding with the intersection of CR 117/Herndon Road at mile point 12.12 and proceed northward as east side widening. The typical section would be four 12-foot lanes with a 44-foot grassed median and open ditch drainage, and the speed design would be 65 mph. The project would continue widening on the east side of the existing roadway to a point just north of CR 306/ Bobby Williamson Road. At this point it would continue northward widening on the west side to a point just north of Little Rocky Creek. At a point 0.3 miles south of Santa Claus, the concept would transition from west side widening to symmetrical widening with the proposed right-of-way also tapering down to the existing right-of-way. During the right-of-way transition, the typical section would transition to four 12-foot lanes with a 14-foot flush median and open ditch drainage, and the speed design would change to 45 mph. This typical section on symmetrical widening within the existing right-of-way would continue to a point just north of CR288/Candy Cane Street. From that point, the typical section would transition to four 12-foot lanes with a 14-foot flush median on curb and gutter through Santa Claus to the end of the project, located at the south city limits of Lyons. The project length would be approximately 5.8 miles and access would be by permit along the existing roadway.

**PDP Classification:** Major/Construction on existing location

Full Oversight ( ), Exempt (X), SF ( ), Other ( )

**Functional Classification:** Rural Principal Arterial

**U. S. Route Number(s):** 1

**State Route Number(s):** 4

**Traffic (ADT) as shown in the approved concept:**

Current Traffic		Design Traffic	
Year: 2008	ADT: 4750	Year: 2028	ADT: 7000

**Proposed Features to be revised:**

**Project Termini:** The approved project ending terminus is recommended for revision.

**Typical Section:** The approved project typical section is recommended for revision.

**Revised feature(s) to be approved:**

**Project Termini:** Due to the proposed change in the beginning terminus of Project EDS-545(26), the ending terminus of EDS-545(25) would change from the southern city limits of Lyons (mile post 17.9) to the intersection of US 1/SR 4 and CR 386/Green Oak Road (milepost 15.7). The new project length would be approximately 3.6 miles.

**Typical Section:** Due to the proposed change in the beginning terminus of Project EDS-545(26), the typical section would no longer transition from four 12 foot lanes with a 44 foot grassed median and open ditch drainage to four 12 foot lanes with a 14 foot flush median. The typical section would be four 12 foot lanes with a 44 foot grassed median and open ditch drainage throughout the length of the project, and would continue onto EDS-545(26).

**Updated traffic data (ADT):**

Current Traffic		Design Traffic	
Year: 2010	AADT: 4400 - 5500	Year: 2030	AADT: 7700 - 9600

**Programmed/Schedule:**

P.E. FY 2002

R/W FY 2008

Construction FY 2012

**Revised Cost Estimates:**

Construction (including inflation and E&C):	\$ 9,104,000
Right-of-Way:	\$ 3,247,100
Utilities:	\$ 366,000
<b>Total:</b>	<b>\$ 12,717,100</b>

Is the project located in a Non-attainment area?        Yes   X   No

**Recommendation:** It is recommended that the proposed revisions to this concept be approved for implementation.

HDK/EKP/ANA

Attachments:

Sketch Map,  
Cost Estimate(s)  
Typical Section(s)

Concur:

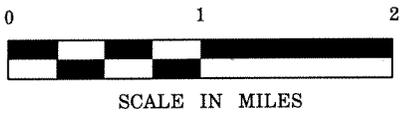
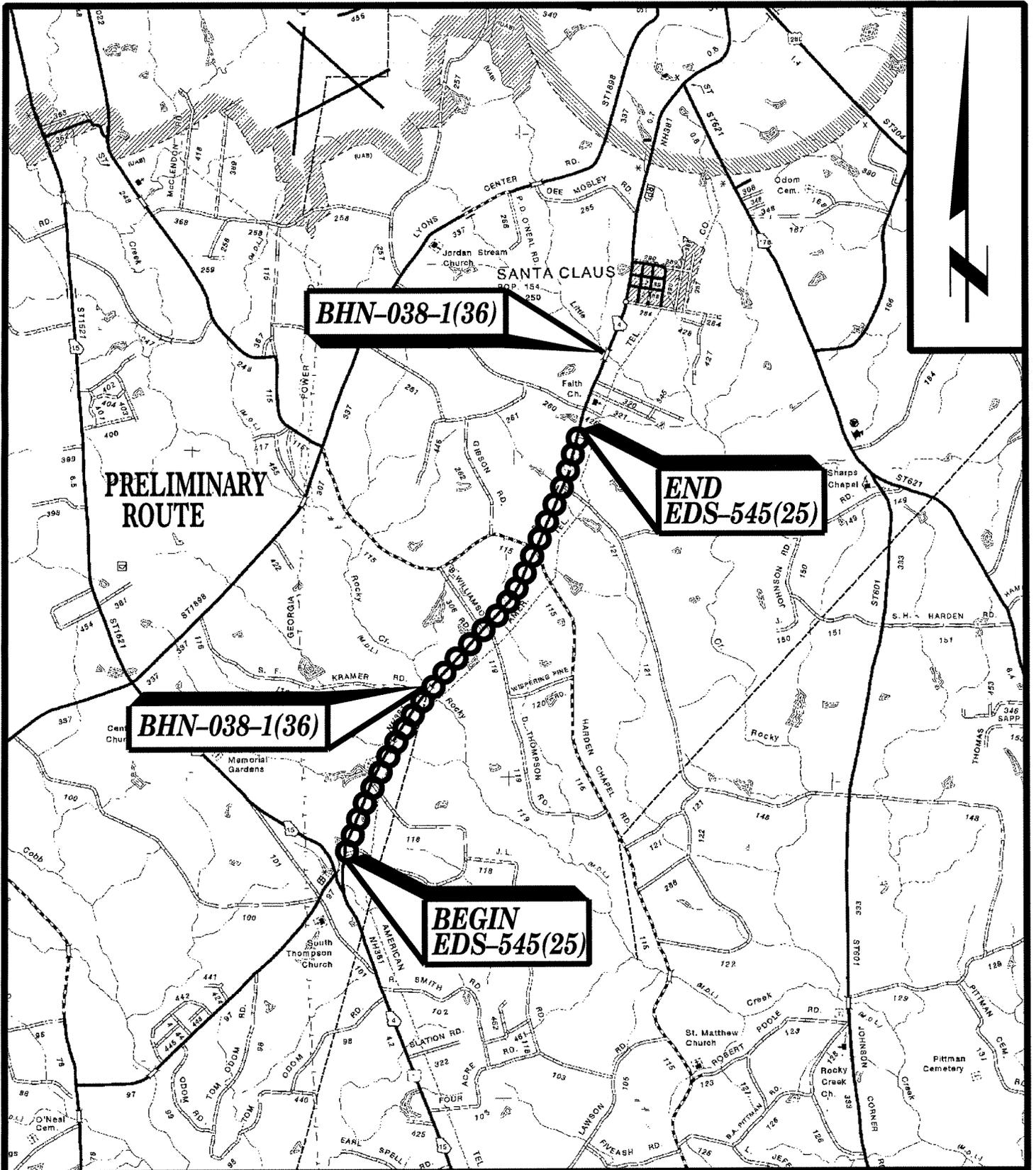


Director of Preconstruction

Approved:



Chief Engineer



**LOCATION**

**STRIP MAP**

EDS-545(25), BHN-038-1(36)  
 US 1/SR 4 IMPROVEMENTS  
 TOOMBS

P.I.# 522190, 522185

SOURCE: GENERAL HIGHWAY MAP, TOOMBS CO., GEORGIA  
 PREPARED BY THE GEORGIA DEPARTMENT OF TRANSPORTATION, 1986

# CONCEPT COST ESTIMATE

Office of Environment/Location

May 9, 2006 3:34 PM

County(s)

PI Number  Project Number

Project Name  Project Length  Miles

## Project Description

Widening and reconstruction of US 1/SR 4 from SR 15/SR29 northward to CR 386/Green oak Road in Toombs county.

## Existing Roadway

## Comments

## TRAFFIC:

Current Design Year  Daily Volume (AADT)

Future Design Year  Daily Volume (AADT)

Concept Estimate

Feasibility Estimate

## Typical Section(s) Used in Estimate

## Typical Section Length

<input type="text" value="Rural Widening: 2 To 4-Lanes with 44 ft Divided Median"/>	<input type="text" value="3.60"/> Miles
<input type="text"/>	<input type="text"/> Miles
<input type="text"/>	<input type="text"/> Miles
<input type="text"/>	<input type="text"/> Miles
<input type="text"/>	<input type="text"/> Miles
<input type="text"/>	<input type="text"/> Miles

Prepared By

**MAJOR STRUCTURES**

*Note! All distances are in feet*

**Bridges: Stream Crossings & Grade Separations**

NO	LOCATION	QTY	CROSSING TYPE	WIDTH	LENGTH	UNIT COST	TOTAL
1	Rocky Creek	1	Stream-New	41.30	300.0	54.00	669,000
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							

**Bridge Culverts**

NO	LOCATION	TYPE / W x H / FILL	LENGTH	UNIT COST	TOTAL
1					
2					
3					
4					
5					
6					
7					
8					

**Walls**

NO	LOCATION	TYPE	HEIGHT	LENGTH	UNIT COST	TOTAL
1						
2						
3						
4						
5						
6						

**MAJOR STRUCTURES SUBTOTAL** \$ 669,000

**Typical Section**

Rural Widening: 2 To 4-Lanes with 44 ft Divided Median

Typical Section Length  Miles

Right-of-Way Width  Feet

**GRADING AND DRAINAGE**

**1. EARTHWORK**

- a. Unclassified Excavation Soil
- b. Unclassified Excavation Rock
- c. Borrow Excavation

**2. MINOR DRAINAGE**

QUANTITY	UNIT COST	TOTAL
442,980 CY	2.18	966,000
49,220 CY	10.00	492,000
12,000 CY	5.90	71,000
3.60 MI	166,126	598,000
<b>GRADING AND DRAINAGE SUBTOTAL</b>		<b>\$2,127,000</b>

**BASE AND PAVING**

**1. GRADED AGGREGATE BASE**

**2. ASPHALT PAVING**

- a. Asph Conc 9.5 mm Superpave
- b. Asph Conc 19 mm Superpave
- c. Asph Conc 25 mm Superpave
- d. Bituminous Tack Coat

**3. CONCRETE PAVING**

- a. Curb and Gutter
- b. Miscellaneous

**4. OTHER PAVING**

THICKNESS and SPREAD RATE	QUANTITY	UNIT COST	TOTAL
10"	46,627 TN	15.25	711,000
1 1/2" (165 LB/SY)	11,326 TN	43.87	497,000
3" (330 LB/SY)	14,388 TN	42.08	605,000
4" (440 LB/SY)	16,715 TN	39.47	660,000
	11,286 GL	1.03	12,000
	3.60 MI	40,114	144,000
<b>BASE AND PAVING SUBTOTAL</b>			<b>\$2,892,000</b>

**LUMP ITEMS**

- 1. TRAFFIC CONTROL
- 2. CLEARING AND GRUBBING
- 3. EROSION CONTROL
- 4. SIGNING & MARKING
- 5. MISCELLANEOUS

QUANTITY	UNIT COST	TOTAL
3.60 MI	88,000	317,000
91.20 AC	6,000	547,000
3.60 MI	107,994	389,000
3.60 MI	27,306	98,000
3.60 MI	105,400	379,000
<b>LUMP ITEM SUBTOTAL</b>		<b>\$1,730,000</b>

**MISCELLANEOUS PROJECT ITEMS**

- 1. GUARDRAIL
- 2. GUARDRAIL ANCHORS
- 3. DETOURS
- 4. SPECIAL FEATURES

QUANTITY	UNIT COST	TOTAL
8,616 LF	10.37	89,000
	EA	
	MI	354,098
<b>MISCELLANEOUS SUBTOTAL</b>		<b>\$89,000</b>

## ESTIMATE SUMMARY

<b>TYPICAL SECTION</b>	<b>COST (per mile)</b>
1. Rural Widening: 2 To 4-Lanes with 44 ft Divided Median	\$ 1,875,000
<b>PROJECT COST</b>	
A. MAJOR STRUCTURES	\$ 669,000
B. GRADING AND DRAINAGE	\$ 2,127,000
C. BASE AND PAVING	\$ 2,892,000
D. LUMP ITEMS	\$ 1,730,000
E. MISCELLANEOUS	\$ 89,000
SUBTOTAL CONSTRUCTION COST	\$ 7,507,000
ENGINEERING & CONTINGENCIES (10%)	\$ 751,000
INFLATION <u> 2 </u> yr(s) @ <u> 5 </u> % per yr	\$ 846,000
<b>GRAND TOTAL CONSTRUCTION COST</b>	<b>\$ 9,104,000</b>

**DEPARTMENT OF TRANSPORTATION**  
**STATE OF GEORGIA**  

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**INTERDEPARTMENTAL CORRESPONDENCE**

FILE: EDS-545(25) Toombs P. I. # 522190

OFFICE: Jesup, Georgia

DATE: May 3, 2006

FROM: Karon Ivery, District Utilities Engineer

TO: Mohammed (Babs) Abubakari, P.E., Office of Consultant Design

SUBJECT: Utility Cost Estimate- SR 4/US 1 FM SR 56 TO SR 29; INC CLVT @ BRANCH OF OPEN CREEK (Toombs County).

Per a request, an on site inspection was made by this office and the following utilities were found to be located within the project limits:

Altamaha EMC-Power  
Bellsouth- Telephone

This estimate is based upon a field visit to the project and information on existing locations of facilities we have received from the utility owners.

The existing three phase facilities belonging to Altamaha EMC appear to be split, with some poles on our existing rights of way which are not reimbursable to them, and some poles, approximately 61 that are off are our existing rights of way which are reimbursable to them at cost of \$6,000.00 a pole which equals \$366,000.00.

The existing facilities belonging to BellSouth appear to be on our existing right of way and are not reimbursable to them.

The total estimated reimbursable cost for this project is \$366,000.00.

If there are any questions please contact George Shenk at [george.shenk@dot.state.ga.us](mailto:george.shenk@dot.state.ga.us) or (912) 427-5859.

Continued.....

**FILE: EDS-545(25) Toombs P. I. # 522190**

Copy:

Jamie Simpson, Office of Financial Management (via e-mail)

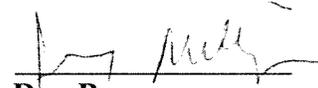
David Norwood, Office of Program Delivery and Consultant Design (via e-mail)

Keith Posey, Office of Environment/Location (via e-mail)

District Office files

Utility Office Files

# Preliminary Right of Way Cost Estimate



**Don Brown**  
 Right of Way Administrator  
 By: Jerry Milligan

**Date:** November 10, 2005

**Project:** EDS-545(25)Appling / Toombs

**Existing/Required R/W:** Varies/Varies

**Project Termini:** US 1 / SR 4 from south of SR 15 to east of Hardon Chapel Road

**Project Description:** Widening of US / SR 4

**P.I. Number:** 5222190

**No. Parcels:** n/a

**Land:**

Residential : 6.6 acres @ \$ 4,000 / acre	\$ 26,400	
Agricultural : 93.06 acres @ \$ 1,500 / acre	<u>88,800</u>	\$ 115,200

**Improvements :** Houses, Misc. Site Improvements 700,000

**Relocation:** Residential ( 6 ) 120,000  
 Commercial ( 0 )

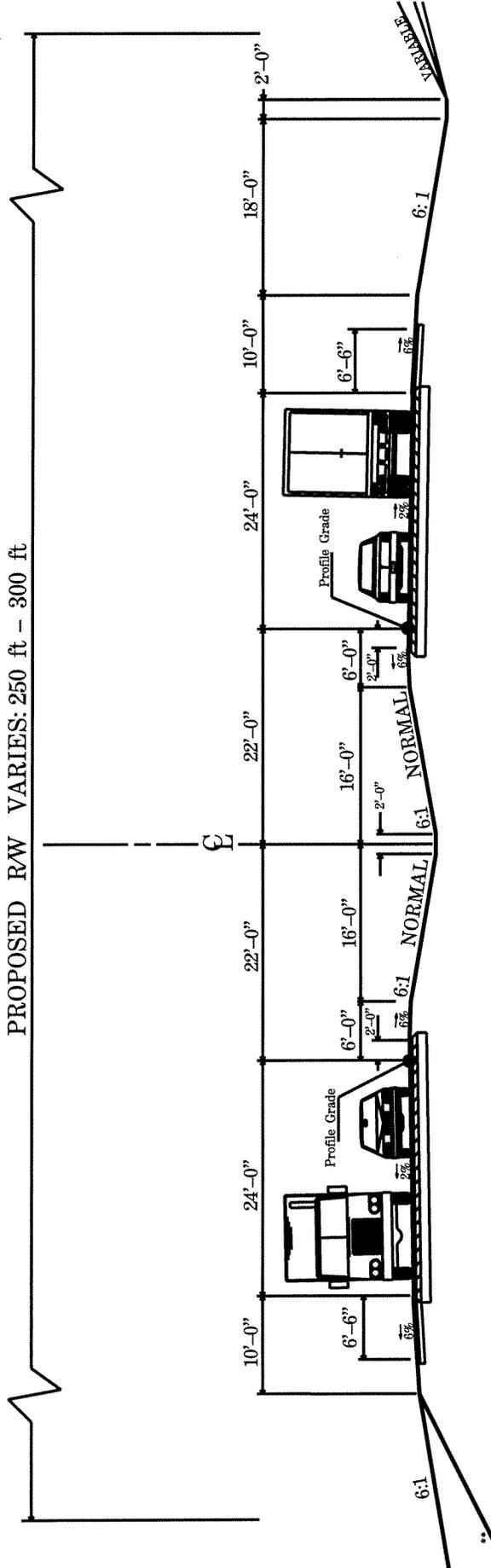
**Damage :** None 0

Net Cost \$ 935,200

Net Cost		\$ 935,200
Scheduling Contingency	55 %	514,360
Adm/Court Cost	60 %	869,736
Inflation Factor	40 %	<u>927,718</u>
		\$ 3,247,014

**Total Cost \$ 3,247,100**

# EDS-545(25) TOOMBS COUNTY US 1/SR 4 IMPROVEMENTS



\*\* Guardrail Required when steeper than 6:1

**TYPICAL CROSS SECTION - 4 LANES w/44 ft  
GRASSED MEDIAN & OPEN DITCH DRAINAGE**

FROM SR 15/SR 29 TO CR 386 /Green Oak Road

NOT TO SCALE