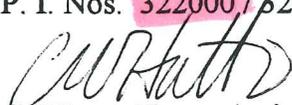


ORIGINAL TO GENERAL FILES

D.O.T. 66

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE STP-037-1(18) / BHF-037-1(19) Bibb County **OFFICE** Preconstruction
P. I. Nos. 322000 / 322005
DATE December 6, 2000
FROM 
C. Wayne Hutto, Assistant Director of Preconstruction
TO SEE DISTRIBUTION

SUBJECT REVISED PROJECT CONCEPT REPORT APPROVAL

Attached for your files is the approval for subject project.

CWH/cj

Attachment

DISTRIBUTION:

Tom Turner
David Mulling
Harvey Keeper
Jerry Hobbs
Herman Griffin
Michael Henry
Marion Waters
Marta Rosen
Jimmy Chambers (ATTN: Ted Cashin)
Glenn Durrence
Joe Palladi

100
**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENTAL CORRESPONDENCE



FILE: STP-037-1(18) & BHF-037-1(19)

Bibb County

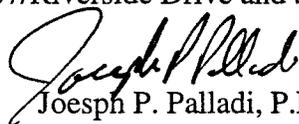
PI #'s 322000 & 322005

SR 87/Riverside Drive and Sabbath Creek Bridge

OFFICE: Urban Design

DATE: September 22, 2000

FROM:


Joseph P. Palladi, P.E., State Urban Design Engineer

Joseph P. Palladi, P.E., State Urban Design Engineer

TO:

C. Wayne Hutto, Assistant Director of Preconstruction

SUBJECT: Revised Project Concept Report

Attached is the original copy of the revised concept report for your further handling and approval in accordance with the PDP.

JPP:MLC 

REVISED PROJECT CONCEPT REPORT

NEED AND PURPOSE:

The proposed project will widen SR 87/Riverside Drive from two lanes to five lanes, from the existing five-lane section at Northside Drive to the four-lane divided section at Hall Road. The project also includes constructing sidewalk on the southbound side of Riverside Drive, replacing the bridge over Sabbath Creek, and intersection improvements at the Tom Hill Sr. Boulevard/ Arkwright Road intersection with Riverside Drive.

Riverside Drive has experienced significant development north of Hall Road. The portion of Riverside Drive between Hall Road and Sue Drive is primarily undeveloped, however development is also anticipated for this portion of Riverside Drive. Traffic volumes on Riverside Drive are expected to increase by 120% between Sue Drive and Hall Road, by the year 2025. Sidewalk is proposed for the southbound side of Riverside Drive, to accommodate pedestrian traffic generated by commercial properties in the area.

Sabbath Creek bridge will be replaced because of the age (60 years), sufficiency rating (41.3), and insufficient hydraulic capacity of the structure. The Tom Hill Sr./Arkwright Road intersection with Riverside Drive will be improved to alleviate traffic congestion and accommodate future traffic volumes.

The proposed widening of Riverside Drive is included in the Macon Area Transportation Study Plan and in the Transportation Improvement Plan.

PROJECT LOCATION:

The Proposed project is Riverside Drive in Macon, Georgia beginning at the intersection with Northside Drive (CR 79) and extending north approximately 2.4 miles to the intersection with Hall Road (CR 217).

DESCRIPTION OF THE APPROVED CONCEPT:

The approved concept is for the widening and reconstruction of Riverside Drive from Northside Drive to Hall Road, including the replacement of the bridge over Sabbath Creek.

The approved concept grade separates Riverside Drive and Arkwright Road/Tom Hill Sr. Boulevard. Access is provided to the surrounding community by a loop connector road between Riverside Drive and Arkwright Road. Reconstruction of the Arkwright Road/I-75 interchange was also included in the approved concept. The existing I-75 bridges over Arkwright Road were to be replaced, as part of the interchange reconstruction.

PDP CLASSIFICATION: Major
Full oversight () Exempt (X) SF () Other ()

FUNCTIONAL CLASSIFICATION: Urban Principal Arterial

U.S. ROUTE #: 23

STATE ROUTE #: 87

TRAFFIC AS SHOWN IN THE APPROVED CONCEPT:

Current ADT (1996): 23,800

Projected ADT (2016): 39,200

PROPOSED FEATURE(S) TO BE REVISED:

1. The approved typical section has four 3.6 m (12 ft.) basic lanes, a 4.2 m (14 ft.) flush median, and 3.6 m (12 ft.) rural shoulders with 1.8 m (6 ft.) paved, on both sides.
2. As part of the approved concept, Riverside Drive would be grade separated from Arkwright Road/Tom Hill Sr. Boulevard. Improvements to Arkwright Road from Riverside Drive to 1500' north of Sheraton Road were also proposed, including the reconstruction of the Arkwright Road/ I-75 interchange.

REVISED FEATURE(S) TO BE APPROVED:

1. The revised typical section is a five lane section with four 12.5 ft. basic lanes, a 14 ft. flush median, a 12 ft. urban shoulder with 5 ft. sidewalk adjacent to the southbound lane, and a 10 ft. unpaved rural shoulder adjacent to the northbound lane. The pavement will have an additional 2 ft. offset to the edge of pavement on both sides, to facilitate construction of a 20 ft. raised median in the future.
2. The grade separation of Riverside Drive and Arkwright Rd./Tom Hill Sr. Boulevard has been removed from the concept for this project, however Riverside Drive will be designed not to preclude grade separation in the future.

The Arkwright Road improvements and reconstruction of the Arkwright Road/ I-75 interchange have also been removed from the concept for this project. The improvements will be developed in Project Number NH-IM-75-2(211), P.I. Number 312090.

UPDATED TRAFFIC:

Current ADT (2000): 12,506

Projected ADT (2025): 21,800

PROGRAMMED SCHEDULE:

P.E.: 2000

R/W: 2001

Construction: 2004

RECOMMENDATION: This office recommends the proposed revisions to the Concept Report for approval.

Concur: Thomas L. Drum 11/20/00
Director of Preconstruction Date

Approve: W. D. Doherty 12-5-00
Chief Engineer Date

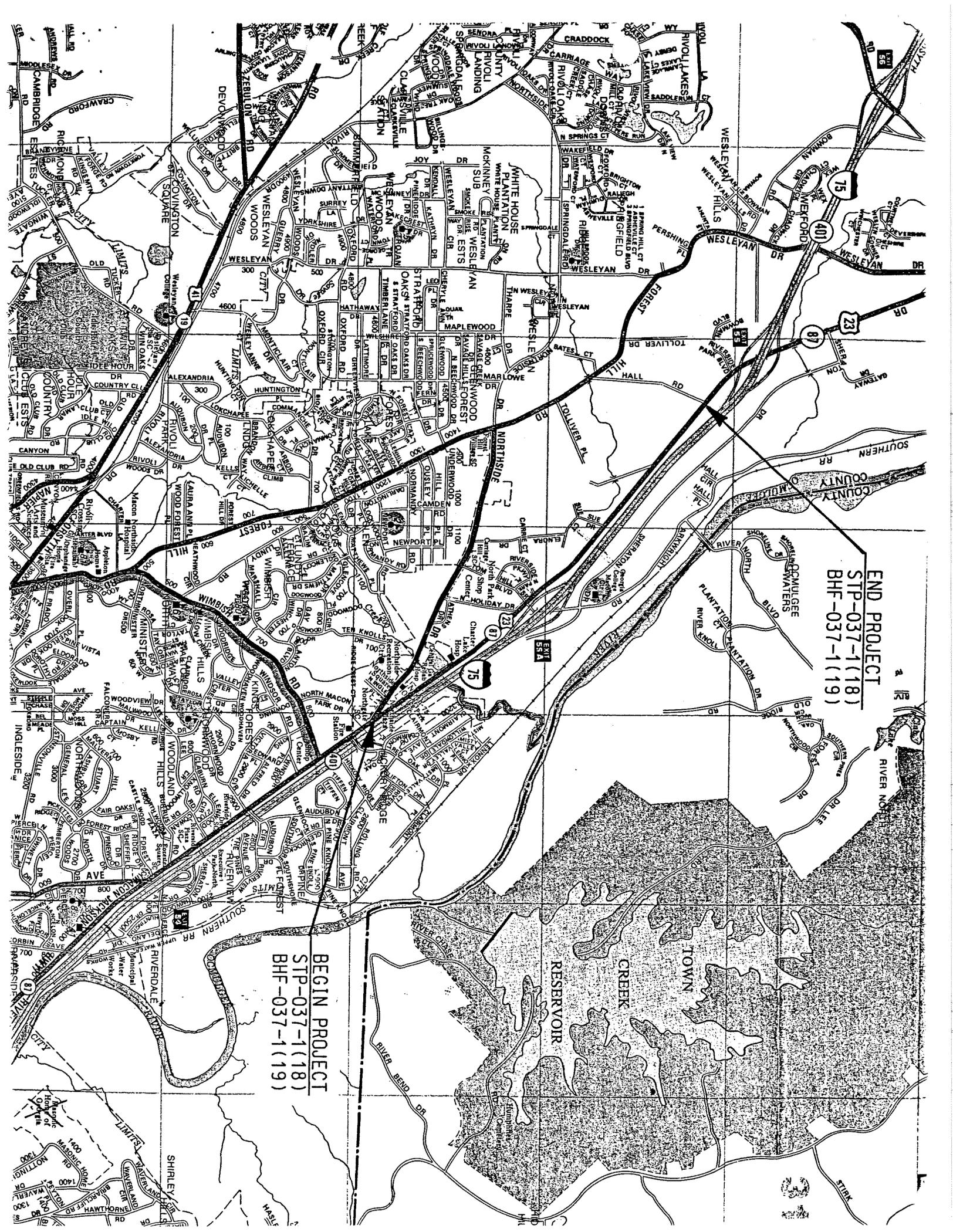
This project concept is contained in the Transportation Improvement Program (TIP) and/or in the State Transportation Improvement Program (STIP). The concept as presented herein and submitted for approval is consistent with that which is included in the TIP and/or the STIP.

Concur: Marta V. Rosen 11-27-00
State Transportation Planning Administrator Date

ATTACHMENTS: Sketch Map, Typical Sections, Cost Estimate

JPP:MLC

cc: Harvey Keeper, Environment/Location
Denny Meier, PBS&J

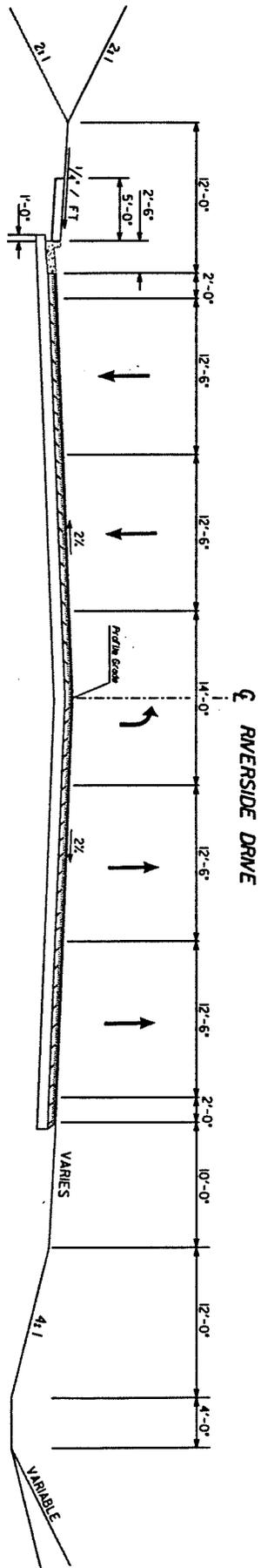


END PROJECT
STP-037-1(18)
BHF-037-1(19)

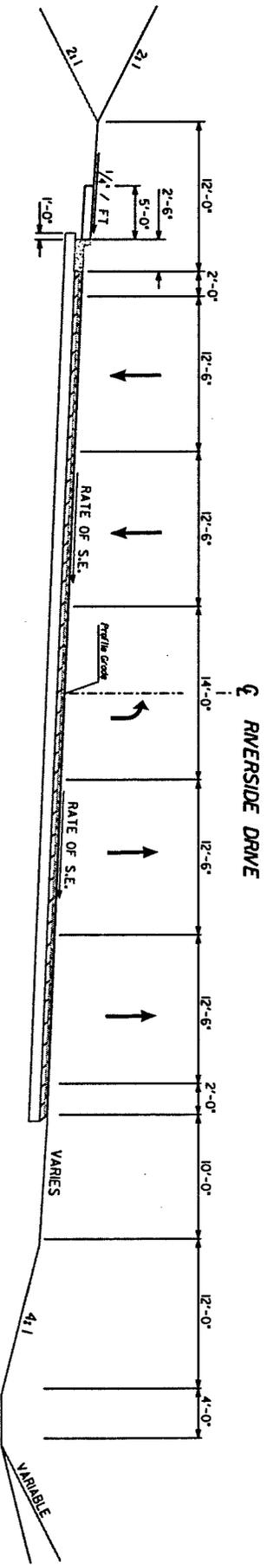
BEGIN PROJECT
STP-037-1(18)
BHF-037-1(19)

CREEK TOWN RESERVOIR

37



TANGENT SECTION



SUPERELEVATED SECTION

TYPICAL SECTIONS
 RIVERSIDE DRIVE
 NORTHSIDE DRIVE TO HALL ROAD

NOT TO SCALE

**PRELIMINARY COST ESTIMATE
URBAN DESIGN OFFICE**

DATE: _____ PREPARED BY: PBS&J

PROJECT NO.: STP-037-1(18) & BHF-037-1(19)

P.I. NO.: 322000 - & 322005 - MILEAGE: 2.4 miles

PROJECT DESCRIPTION: Widening and reconstruction of Riverside Drive from Hall Road to Northside Drive, including replacement of the bridge over Sabbath Creek.

PROPOSED CONCEPT: Four 12.5' travel lanes with a 14' center turn lane. A 12' urban shoulder with sidewalk on the left side and a 10' rural shoulder on the right side toward I-75.

EXISTING ROADWAY (If Applicable): Riverside Drive

TRAFFIC: Existing: 12,506 (2000) Design: 21,800 (2020)

PROGRAMMING PROCESS CONCEPT DEVELOPMENT

DURING PROJECT DEVELOPMENT

A. RIGHT-OF-WAY

1. PROPERTY (Land and Easements)

_____ \$ 500,000.00

SUBTOTAL \$ 500,000.00

B. REIMBURSABLE UTILITIES

1. SERVICES

_____ \$ 100,000.00

SUBTOTAL \$ 100,000.00

C. MAJOR STRUCTURES

1. BRIDGES

_____ 82' x 140' x \$55/SF \$ 631,400.00

2. CULVERTS

_____ Extend 2-6x4 (single) & 1-8x10 (double) \$ 300,000.00

3. MISCELLANEOUS

_____ \$ _____

SUBTOTAL \$ 931,400.00

GRADING AND EARTHWORK

1. BORROW: <u>20,000</u> yds. @ \$ <u>7.50</u>	\$ <u>250,000.00</u>
2. EXCAVATION:	
SOIL: <u>5000</u> yds. @ \$ <u>3.00</u>	\$ <u>15,000.00</u>
ROCK: _____ yds. @ \$ _____	\$ _____
SUBTOTAL	\$ <u>265,000.00</u>

D. DRAINAGE

1. STORM DRAIN PIPE

<u>272</u> lf of <u>15"</u> dia @ \$ <u>26.00</u>	\$ <u>7,072.00</u>
<u>5400</u> lf of <u>18"</u> dia @ \$ <u>26.00</u>	\$ <u>140,400.00</u>
<u>2115</u> lf of <u>24"</u> dia @ \$ <u>35.00</u>	\$ <u>74,025.00</u>
<u>580</u> lf of <u>36"</u> dia @ \$ <u>56.00</u>	\$ <u>32,480.00</u>
<u>75</u> lf of <u>48"</u> dia. @ \$ <u>75.00</u>	\$ <u>5,625.00</u>
<u>1</u> FES <u>18"</u> dia. @ \$ <u>375.00</u>	\$ <u>375.00</u>
<u>3</u> FES <u>24"</u> dia. @ \$ <u>450.00</u>	\$ <u>1,350.00</u>

2. SIDE DRAIN PIPE

_____ lf of _____ dia @ _____ \$ _____	\$ _____
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3. MINOR STRUCTURES

<u>43</u> ea. <u>Catch basin</u> @ \$ <u>1750</u>	\$ <u>75,250.00</u>
<u>15</u> ea. <u>Drop Inlet</u> @ \$ <u>1700</u>	\$ <u>25,500.00</u>
<u>5</u> ea. <u>Manhole</u> @ \$ <u>1530</u>	\$ <u>7,650.00</u>

4. MISCELLANEOUS

<u>2000</u> lf <u>6" dia. Under drain pipe @ 10.00</u>	\$ <u>20,000.00</u>
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SUBTOTAL \$ 389,727.00

E. BASE AND PAVING

1. AGGEGATE BASE

<u>38998</u> tons @ \$ <u>16.30</u>	\$ <u>635,667.00</u>
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2. ASPHALT PAVING

<u>8623</u> tons of <u>12.5 mm Superpave</u> @ \$ <u>43.60</u>	\$ <u>375,962.00</u>
<u>6100</u> tons of <u>19 mm Superpave</u> @ \$ <u>39.30</u>	\$ <u>239,730.00</u>
<u>17600</u> tons of <u>25 mm Superpave</u> @ \$ <u>41.15</u>	\$ <u>724,240.00</u>
<u>1500</u> tons of <u>Leveling</u> @ \$ <u>38.00</u>	\$ <u>57,000.00</u>
<u>5192</u> gals of <u>Tack Coat</u> @ \$ <u>1.00</u>	\$ <u>5,192.00</u>

3. CONCRETE PAVING

\$ _____

4. MISCELLANEOUS

\$ _____

SUBTOTAL \$ 2,037,791.00

F. CONCRETE WORK

1. CURB AND GUTTER

13041 lf @ \$ 10.00 \$ 130,410.00

2. SIDEWALKS

7245 sy @ \$ 18.00 \$ 130,410.00

3. MISCELLANEOUS

1356 sy - 6" Driveway Conc. @ \$22.00 \$ 29,832.00

590 sy - 8" Conc. Valley Gutter @ \$27.00 \$ 15,930.00

488 sy - Reinforced Conc. Approach Slab @ \$85.00 \$ 41,480.00

SUBTOTAL \$ 348,062.00

G. SIGN/ STRIPE/ SIGNAL

26343 lf Striping - Solid Yellow @ \$0.20 \$ 5,269.00

27443 lf Striping - Solid White @ \$0.20 \$ 5,489.00

540 sy Striping - Yellow @ \$5.00 \$ 2,700.00

25542 lf Striping - Skip White @ \$0.15 \$ 3,831.00

22740 lf Striping - Skip Yellow @ \$0.15 \$ 3,411.00

2 Traffic Signals @ \$75,000.00 \$ 150,000.00

Traffic signs - Lump Sum \$ 10,000.00

SUBTOTAL \$ 180,700.00

H. GUARDRAIL

2805 lf Ty W @ \$ 20.00 \$ 56,100.00

82 lf Ty T @ \$ 35.00 \$ 2,870.00

9 Anchors Ty 12 @ \$ 1,500.00 \$ 13,500.00

7 Anchors Ty 1 @ \$ 491.00 \$ 3,437.00

SUBTOTAL \$ 75,907.00

I. TRAFFIC CONTROL

1. TEMPORARY BARRIER

500 If Method 2 @ \$ 25.00 \$ 12,500.00

2. SIGN/LIGHT/ BARRICADES/ ETC.

Barrels, signs and lighting \$ 30,000.00

3. TRAFFIC CONTROL - LUMP

\$ 57,500.00

SUBTOTAL \$ 100,000.00

K. LUMP ITEMS

1. CLEARING AND GRUBBING

32.5 Acres @ \$ 10,000.00 \$ 325,000.00

2. LANDSCAPE/ GRASSING

32.5 acres @ \$700.00 \$ 22,750.00

3. EROSION CONTROL

32.5 acres @ \$2300.00 \$ 74,750.00

SUBTOTAL \$ 420,500.00

L. MISCELLANEOUS

1. FENCING

 If @ \$ \$

2. OTHER/ SPECIAL FEATURES

30 Right-of-Way Markers @ \$60.00 \$ 1,800.00

2500 sy of Rip-Rap @ \$35.00 \$ 87,500.00

Field Engineers Office - Lump \$ 35,000.00

Bridge Removal - Lump \$ 20,000.00

Wetland Mitigation - Lump \$ 5,000.00

SUBTOTAL \$ 148,580.00

ESTIMATE SUMMARY

RIGHT-OF-WAY	\$ <u>500,000.00</u>
REIMBURSABLE UTILITIES	\$ <u>100,000.00</u>

CONSTRUCTION COST SUMMARY

CLEARING AND GRUBBING	\$ <u>325,000.00</u>
EARTHWORK	\$ <u>265,000.00</u>
BASE AND PAVING	\$ <u>2,037,800.00</u>
DRAINAGE	\$ <u>389,800.00</u>
CONCRETE WORK	\$ <u>348,100.00</u>
TRAFFIC CONTROL	\$ <u>100,000.00</u>
EROSION CONTROL	\$ <u>74,800.00</u>
GUARDRAIL	\$ <u>76,000.00</u>
SIGN/ STRIPE/ SIGNAL	\$ <u>180,700.00</u>
LANDSCAPING/ GRASSING	\$ <u>22,800.00</u>
MISCELLANEOUS	\$ <u>149,300.00</u>
SUBTOTAL ROADWAY ITEMS	\$ <u>3,969,300.00</u>
MAJOR STRUCTURES	\$ <u>931,400.00</u>
TOTAL CONSTRUCTION ESTIMATES	\$ <u>4,900,700.00</u>
5 % INFLATION FOR <u>3</u> YRS	\$ <u>772,500.00</u>
10 % E&C	\$ <u>567,400.00</u>
TOTAL	\$ <u>6,240,600.00</u>