

TRANSPORTATION PLANNING REPORT

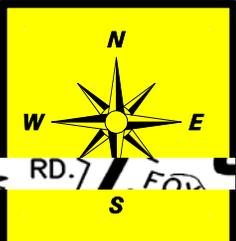
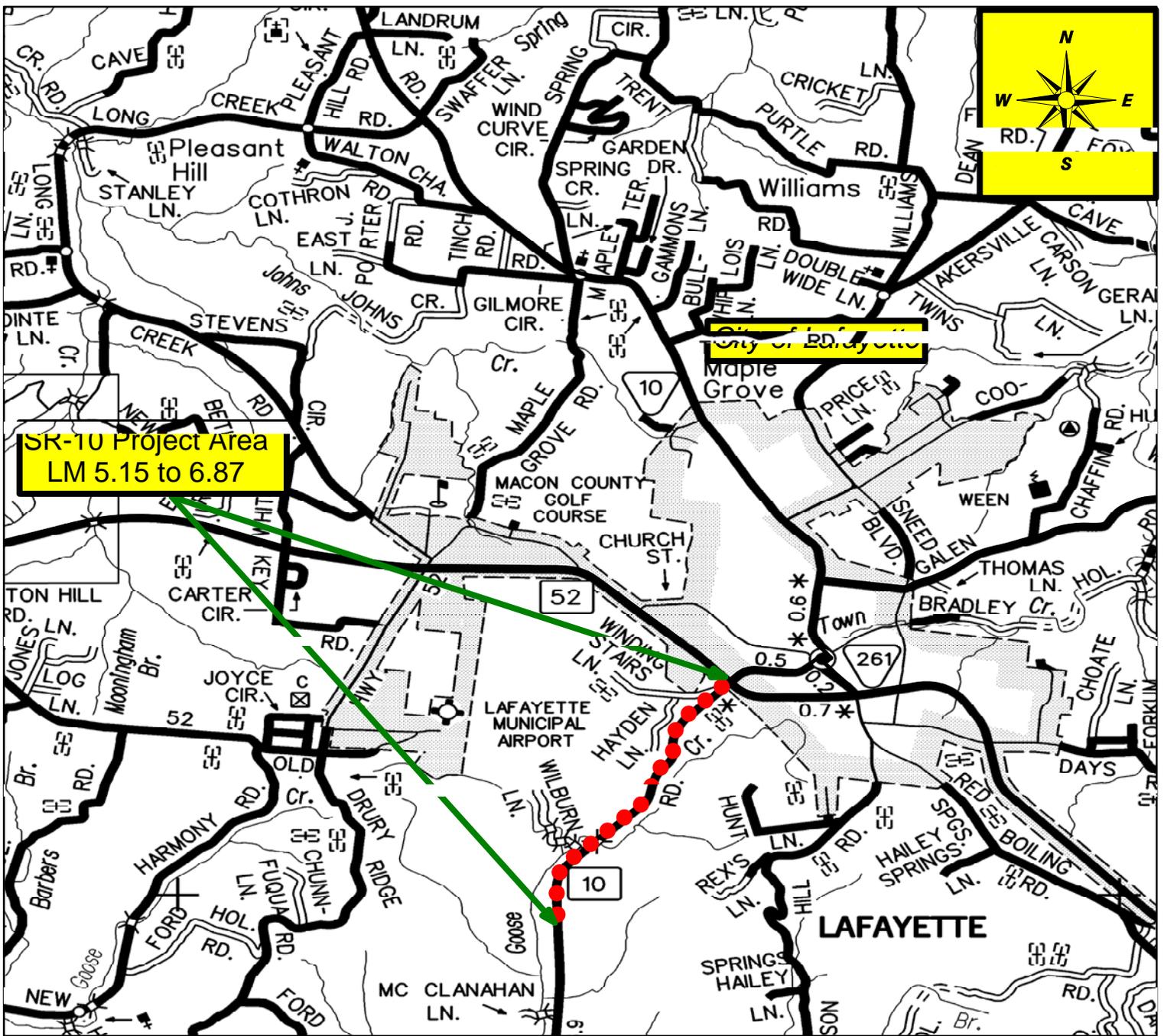
STATE ROUTE 10
BEGIN: SOUTH OF GOOSE CREEK
END: STATE ROUTE 52
MACON COUNTY
PIN# 103773.02



PREPARED BY
TENNESSEE DEPARTMENT OF TRANSPORTATION
PROJECT PLANNING DIVISION

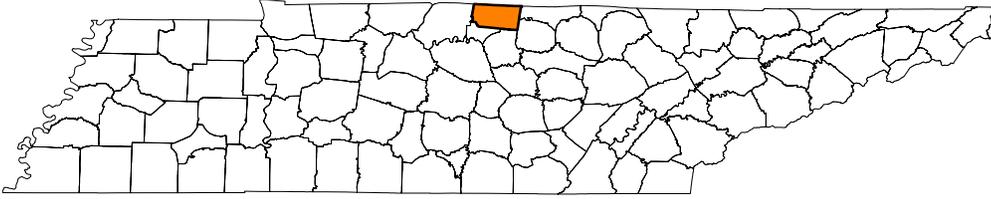
Recommended by:	Signature	DATE
CHIEF OF ENVIRONMENT AND PLANNING		6/22/06
TRANSPORTATION DIRECTOR PROJECT PLANNING DIVISION		6-22-06
TRANSPORTATION MANAGER 2 PROJECT PLANNING DIVISION		6/19/06

This document is covered by 23 USC § 409 and its production pursuant to fulfilling public planning requirements does not waive the provisions of § 409.



**SR-10 Project Area
LM 5.15 to 6.87**

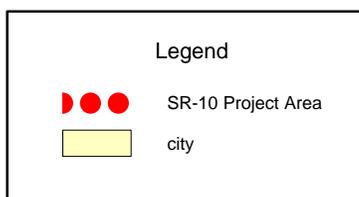
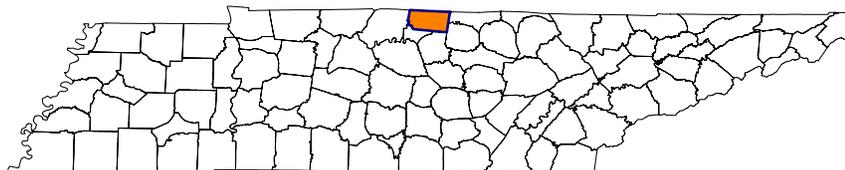
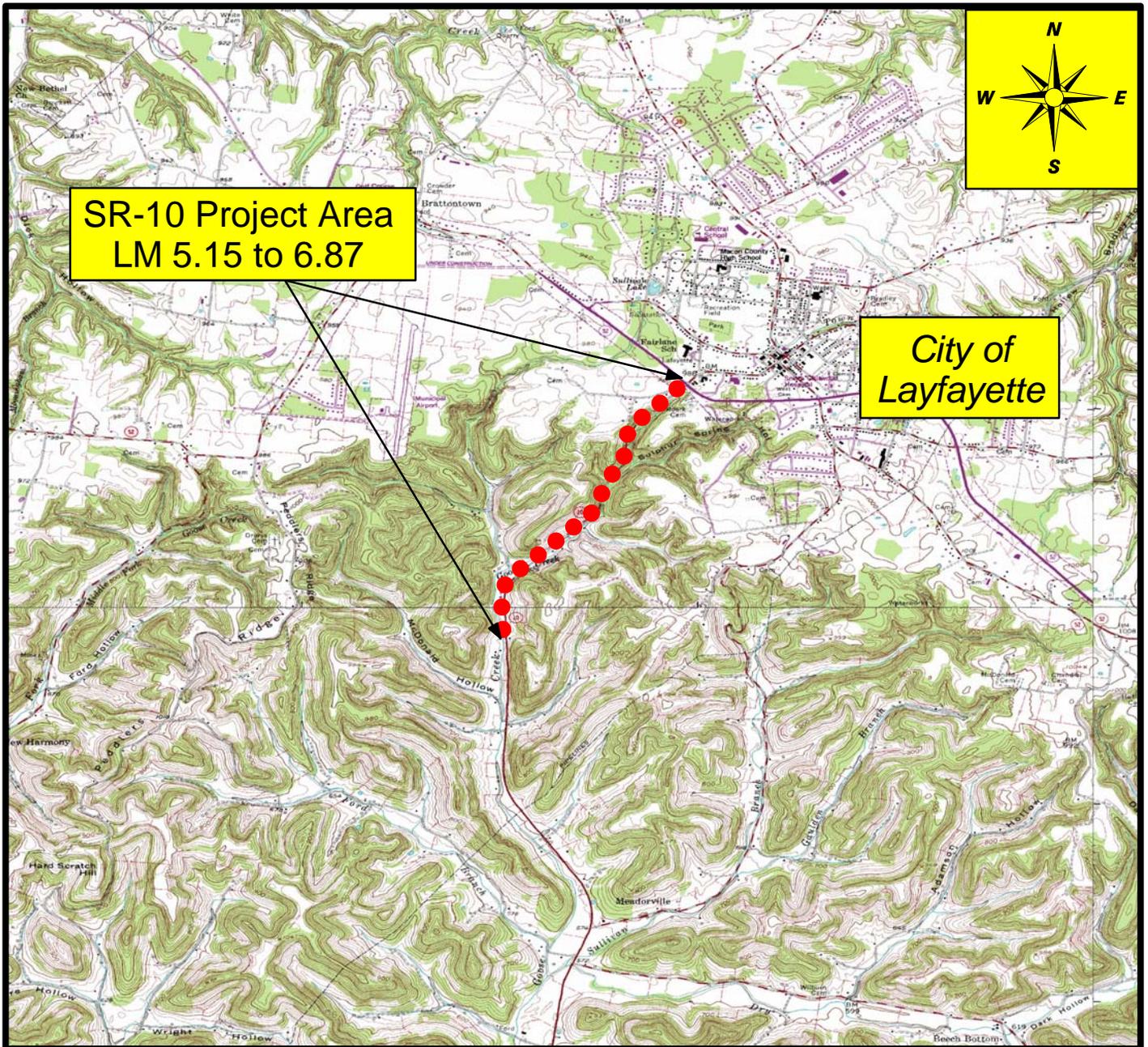
City of Macon, GA



Legend

- SR-10 Project Area
- City

**Macon County
State Route 10
South of Goose Creek
to State Route 52**



**Macon County
State Route 10
From South Goose Creek
to State Route 52**

**DATA TABLE
State Route 10
Macon County**

**From: 0.43 mile south of Goose Creek
To: State Route 52**

EXISTING

Item

Functional Class	Rural Minor Arterial
System Class	STP
Length - Miles	1.72
Cross Section	22 /30/ 100
Feet	34 /44/ 100
Present ADT (2011)	4,770
Projected Future ADT (2031)	5,870
Percent Trucks	6%
Estimated Right-of-Way Acquisition (Acres)	
Estimated Right-of-Way Cost	
Estimated Utility Cost Reimbursable	
Estimated Utility Cost Non-Reimbursable	
Estimated Construction Cost	
Estimated Preliminary Engineering Cost	
Total Estimated Section Cost	

**DATA TABLE
State Route 10
Macon County**

OPTION 1

**From: 0.43 mile south of Goose Creek
To: Goose Creek**

PROPOSED

Item

Functional Class	Rural Minor Arterial
System Class	STP
Length - Miles	1.72
Cross Section Feet	36 /52/ Variable
Present ADT (2011)	4,770
Projected Future ADT (2031)	5,870
Percent Trucks	6%
Estimated Right-of-Way Acquisition (Acres)	27.9
Estimated Right-of-Way Cost	\$ 1,145,000
Estimated Utility Cost Reimbursable	N/A
Estimated Utility Cost Non-Reimbursable	\$ 682,000
Estimated Construction Cost	\$ 10,709,000
Estimated Preliminary Engineering Cost	\$ 800,000
Total Estimated Section Cost	\$ 13,336,000

**DATA TABLE
State Route 10
Macon County**

OPTION 2

**From: 0.43 mile south of Goose Creek
To: Goose Creek**

PROPOSED

Item

Functional Class	Rural Minor Arterial
System Class	STP
Length - Miles	1.72
Cross Section Feet	36 / 60 / Variable
Present ADT (2011)	4,770
Projected Future ADT (2031)	5,870
Percent Trucks	6%
Estimated Right-of-Way Acquisition (Acres)	62.2
Estimated Right-of-Way Cost	\$ 1,837,000
Estimated Utility Cost Reimbursable	N/A
Estimated Utility Cost Non-Reimbursable	\$ 608,000
Estimated Construction Cost	\$ 23,319,000
Estimated Preliminary Engineering Cost	\$ 1,740,000
Total Estimated Section Cost	\$ 27,504,000

PURPOSE OF STUDY

The purpose of this study is to examine the existing conditions and determine the feasibility of improving State Route 10 in Macon County from south of Goose Creek to State Route 52 in Lafayette. The objectives of this study are to examine the existing route, develop recommendations for improvement, estimate the cost of project implementation, and identify the preliminary environmental concerns. This study was initiated at the request of the TDOT Project Management Office and will supersede the Advance Planning Report distributed on August 13, 2004. The proposed project is a part of the Upper Cumberland Development Route.

DEFICIENCIES

Geometrics x Structures Operational R/R Crossing

Crash Rate 2.11 Statewide Average Crash Rate 1.70

Other Maximum grade 6.7%

Geometrics: horizontal and vertical alignment.

EXISTING CONDITIONS

Existing State Route 10 is classified as a rural minor arterial facility from south of Goose Creek to State Route 52 in the city of Lafayette.



Looking north at beginning of proposed project at L.M. 5.09.



Looking south at beginning of proposed project at L.M. 5.09.



L.M. 5.98 looking north. (up grade)



L.M. 5.98 looking south. (down grade)



L.M. 6.56 looking north. (up grade)



Looking north at L.M. 6.87 at intersection of SR 10 and SR 52.

State Route 10 from 0.43 miles south of Goose Creek to State Route 52 carries 4,770 vehicles per day in the base year (2011) with traffic projected to increase to 5,870 vehicles per day in the design year (2031). The roadway is classified as a rural minor arterial, consisting of two eleven foot travel lanes with four feet shoulders. The roadway widens to accommodate a north bound truck climbing lane approximately one half mile prior to the State Route 52 intersection. The southern approach to the four way stop intersection at State Route 52 has a single left turn lane, a single through lane and a channelized right turn lane.

PROPOSED IMPROVEMENT

OPTION 1: (LM 5.15 to 6.87 = 1.72± miles) From approximately 0.43 mile south of Goose Creek to State Route 52. The project was designed to minimize the impact to property owners and to minimize the transition from the existing roadway to the proposed improvements. The start of the project area was the logical termini because it meets current design standards for the starting point on a hill for a truck climbing lane.

It is proposed to widen the existing roadway to the west (cut side) and maintain the existing slopes to the east (fill side) while holding the existing ROW on the

right. Two feet (2') of the existing shoulder (fill side) will be utilized for the placement of guardrail. The proposed typical section will consist of three (3) @ twelve foot (12') traffic lanes, eight foot (8') shoulders and twelve foot (12') ditches and 1.5:1 cut slopes with variable right-of-way determined by slopes.



Example of route with similar design of proposed route.

The existing design speed will be maintained on the proposed improvement. The existing structures will be widened or replaced as determined by TDOT Structures Division.

Option 2: (LM 5.15 to 6.87= 1.72±) From approximately .43 mile south of Goose Creek to State Route 52. It is proposed to construct the proposed roadway on a new alignment to the west of State Route 10.

The proposed typical section will consist of three (3) @ twelve foot (12') traffic lanes, twelve foot (12') shoulders and eighteen foot (18') ditches (see Standard Drawing RD01 – TS -- 3), with variable right-of-way determined by slopes. It is proposed to realign Winding Stairs Lane to intersect with State Route 10 approximately 300' south of the existing location.

A fifty five (55) MPH design speed is proposed throughout the improvement. The existing structures will be widened or replaced as determined by TDOT Structures Division.



Example of route with similar design of proposed route.

LEVEL OF SERVICE:

Roadway level of service (LOS) is a ranking of travelers' perceptions of the quality of service provided by a facility. LOS is represented by the letters "A" through "F", with "A" generally representing the most favorable driving conditions and "F" representing the least favorable.

The proposed route capacity analysis shows a level of service (LOS) "D" during the base year 2011 and a LOS "D" during the design year 2031. The definition of LOS "D": Speeds decline with increasing traffic; Freedom to maneuver within the traffic stream is more noticeably limited; The driver experiences reduced physical and psychological comfort levels.

DISPOSITION OF EXISTING ROUTE

Any portion of existing State Route 10 not utilized from approximately 0.43 miles south of Goose Creek to State Route 52 will be removed from state highway system and turned over to local government for maintenance. Any section of roadway not necessary for local access will be scarified and removed.

BICYCLE AND PEDESTRIAN CONSIDERATIONS

OPTION 1: has proposed 8' paved shoulders to allow bicycle and pedestrian travel.

OPTION 2: has proposed 12' paved shoulders to allow bicycle and pedestrian travel.

ENVIRONMENTAL CONSIDERATIONS

Detailed environmental technical studies were not prepared for this project; however, preliminary investigations were conducted to identify environmentally sensitive areas for historic, archaeological, and ecological considerations.

Goose Creek and several tributaries will be crossed by this proposed project. Construction undertaken in this area will require appropriate permitting and special consideration to mitigate any adverse impacts.

FIELD INVESTIGATION

A field review was held for the proposed project on November 10, 2004. The following were in attendance:

Bob Allen, Environmental
Ralph Barnes, Project Management
Bryan Basher, FHWA
Charles Graves, Functional Design
C.L. Tilley, Functional Design

Also, at this meeting Environmental Justice issues were mentioned. Lori Kirby conducted a preliminary review of the project regarding Environmental Justice issues on November 22, 2004 and nothing was identified.

CHECK LIST OF DETERMINANTS FOR LOCATION STUDY

If preliminary field reviews indicate the presence of any of the following facilities or ESE categories, place an "x" in the blank opposite the item. Where more than one alternate is to be considered, place its letter designation in the blank.

1. Agricultural land usage..... x
2. Airport existing or proposed) _____
3. Commercial area, shopping center....._____
4. Floodplains....._____
5. Forested land..... x
6. Historical, archaeological, cultural, or natural landmark
Or cemeteries....._____
7. Industrial park, factory....._____
8. Institutional usage's
 - a. School or other educational institution....._____
 - b. Church or other religious institution....._____
 - c. Hospital or other medical facility....._____
 - d. Public building, e.g. fire station....._____
 - e. Defense installation....._____
9. Recreational usage's
 - a. Park or recreational area, State Natural Area....._____
 - b. Wildlife refuge or wildlife management area....._____
10. Residential establishment..... x
11. Urban area, town, city, or community..... x
(LaFayette pop. 3,885)
12. Waterway, lake, pond, river, stream, spring, wetland..... x
Permit required: Coast Guard _____ Section 404 x
Section 10 _____ TVA Section 26a review _____
NPDES x Aquatic Resource Alteration Permit x
Class V Injection Wells _____
13. Location coordinated with local officials..... _____
14. Railroad Crossings....._____
15. Hazardous Material Site (U.G.T. – Underground Tanks)....._____
16. Other....._____

**TENNESSEE DEPARTMENT OF TRANSPORTATION
PROJECT PLANNING DIVISION**

PROJECT NO.: _____ ROUTE: S.R. 10
 COUNTY: MACON CITY: LAFAYETTE
 PROJECT PIN NUMBER: 103773.01
 PROJECT DESCRIPTION: FROM SOUTH OF GOOSE CREEK TO S.R 52.

DIVISION REQUESTING:

MAINTENANCE PAVEMENT DESIGN
 PLANNING STRUCTURES
 PROG. DEVELOPMENT & ADM. SURVEY & DESIGN
 PUBLIC TRANS. & AERO. TRAFFIC SIGNAL DESIGN
 OTHER _____
 YEAR PROJECT PROGRAMMED FOR CONSTRUCTION: _____
 PROJECTED LETTING DATE: _____

TRAFFIC ASSIGNMENT:

BASE YEAR		DESIGN YEAR					DESIGN ROADWAY % TRUCKS		DESIGN AVERAGE DAILY LOADS	
ADT	YEAR	ADT	DHV	%	YEAR	DIR.DIST.	DHV	ADT	FLEX	RIGID
4770	2011	5,870	646	11	2031	65-35	4	6		

REQUESTED BY: NAME TERRY GLADDEN DATE 4/25/06
 DIVISION PROJECT PLANNING DIVISION
 ADDRESS 900 J. K. POLK
NASHVILLE TN 37243

REVIEWED BY: TONY ARMSTRONG Tony Armstrong DATE 4-25-06
 TRANSPORTATION MANAGER 1
 SUITE 1000, JAMES K. POLK BUILDING

APPROVED BY: BILL HART Bill Hart DATE 4/25/06
 TRANSPORTATION MANAGER 2
 SUITE 900, JAMES K. POLK BUILDING

COMMENTS:

THIS TRAFFIC BASED ON 2005 CYCLE COUNTS AND PROJECTED BY THE ADAM COMPUTER PROGRAM.

DHV'S ARE NOT REQUIRED FOR SIDE ROADS LESS THAN 1000 ADT.

NOTE: FOR BRIDGE REPLACEMENT PROJECTS, ADLs ARE NOT REQUIRED FOR ADTs OF 1000 OR LESS AND PERCENTAGE OF TRUCKS OF 7% OR LESS.

SEE ATTACHMENTS FOR TURNING MOVEMENTS AND/OR OTHER DETAILS.

(REV. 1/30/06)

**TENNESSEE DEPARTMENT OF TRANSPORTATION
DESIGN CRITERIA FOR LOCATION AND DESIGN PHASE**

ROUTE SR-10 OPTION 1 SECTION _____
REGION 3 CITY _____ COUNTY Macon
LOCATION From 0.43 mile south of Goose Creek to State Route 52

ADT (2011)	<u>4,770</u>
ADT (2031)	<u>5,870</u>
PERCENT TRUCKS	<u>6%</u>
DHV (2031)	<u>646</u>
FUNCTIONAL CLASSIFICATION	<u>Minor Arterial</u>
MINIMUM DESIGN SPEED	<u>Existing</u>
ACCESS CONTROL	<u>Non</u>
MINIMUM RADIUS/MAXIMUM CURVE	<u>Existing</u>
MAXIMUM GRADE	<u>Existing</u>
MINIMUM STOPPING SIGHT DISTANCE	<u>Existing</u>
SURFACE WIDTH	<u>* 3 @ 12'</u>
NUMBER OF LANES	<u>* 3</u>
USEABLE SHOULDER WIDTH	<u>**8'</u>
MEDIAN WIDTH	<u>N/A</u>
MINIMUM RIGHT-OF-WAY	<u>*** Varies</u>
SIGNALIZATION	<u>N/A</u>

REMARKS: *Includes 1 @ 12' truck climbing lane. ** Includes 2' required for placement of guardrail. *** Right-of-way to be determined by slopes.

**TENNESSEE DEPARTMENT OF TRANSPORTATION
DESIGN CRITERIA FOR LOCATION AND DESIGN PHASE**

ROUTE SR-10 OPTION 2 SECTION _____
REGION 3 CITY _____ COUNTY MACON
LOCATION From 0.43 miles south of Goose Creek to State Route 52

ADT (2011)	<u>4,700</u>
ADT (2031)	<u>5,870</u>
PERCENT TRUCKS	<u>6%</u>
DHV (2031)	<u>646</u>
FUNCTIONAL CLASSIFICATION	<u>Minor Arterial</u>
—	
MAXIMUM DESIGN SPEED	<u>55 MPH</u>
ACCESS CONTROL	<u>Non</u>
MINIMUM RADIUS/MAXIMUM CURVE	<u>6° 00' (S.E. 0.08)</u>
MAXIMUM GRADE	<u>6%</u>
MINIMUM STOPPING SIGHT DISTANCE	<u>495'</u>
SURFACE WIDTH	<u>*3 @ 12'</u>
NUMBER OF LANES	<u>*3</u>
USEABLE SHOULDER WIDTH	<u>12'</u>
MEDIAN WIDTH	<u>N/A</u>
MINIMUM RIGHT-OF-WAY	<u>**Varies</u>
SIGNALIZATION	<u>N/A</u>

REMARKS: * Includes 1 @ 12' truck climb lane. ***Right-of-way to be determined by slopes.

<p align="center">EST. COST DATA SHEET SR-10 in Macon County</p> <p>PROJECT: 0.43 mile south of Goose Creek to SR-52 LENGTH: 1.72 CROSS SECTION: 36 /52/ Varies</p>		<p align="center">Option 1 Total Cost</p>
<p><u>Right-of-Way</u></p> <p align="right">EST. RIGHT-OF-WAY COST</p>	<p align="right">\$1,145,000</p>	
<p><u>Utility Relocation</u></p> <p align="center">Reimbursable Non-Reimbursable</p> <p align="right">EST. ADJUSTMENT COST</p>	<p align="right">\$682,000</p> <hr/> <p align="right">\$682,000</p>	
<p><u>Construction</u></p> <p>Clearing and Grubbing \$75,000</p> <p>Earthwork \$5,005,000</p> <p>Pavement Removal \$25,000</p> <p>Drainage \$555,000</p> <p>Structures \$60,000</p> <p>Railroad Crossing or Separation n/a</p> <p>Paving \$1,030,000</p> <p>Retaining Walls n/a</p> <p>Maintenance of Traffic \$90,000</p> <p>Topsoil \$25,000</p> <p>Seeding \$20,000</p> <p>Sodding \$7,000</p> <p>Signing \$7,000</p> <p>Lighting n/a</p> <p>Signalization n/a</p> <p>Fence n/a</p> <p>Guardrail \$80,000</p> <p>Rip Rap or Slop Protection \$60,000</p> <p>Other Construction Items (8.5%) \$600,000</p> <p>Mobilization \$350,000</p> <p>10% Engineering and Contingencies \$800,000</p> <p>Preliminary Engineering (10%) \$800,000</p> <p>4% X 5 years = 20% \$1,920,000</p> <p align="right">EST. CONSTRUCTION COST</p>	<p align="right">\$11,509,000</p>	
<p align="right">EST. SECTION COST</p>	<p align="right">\$13,336,000</p>	

Index Of Sheets

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2 - 2A	TYPICAL SECTION
3 - 7	LAYOUT - OPTION 1
8 - 12	LAYOUT - OPTION 2
13	LOCATION MAP

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION BUREAU OF ENGINEERING

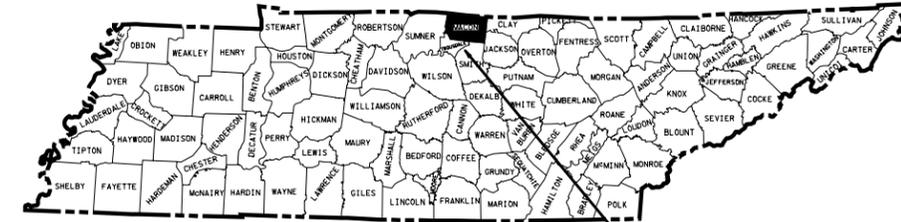
MACON COUNTY

STATE ROUTE 10

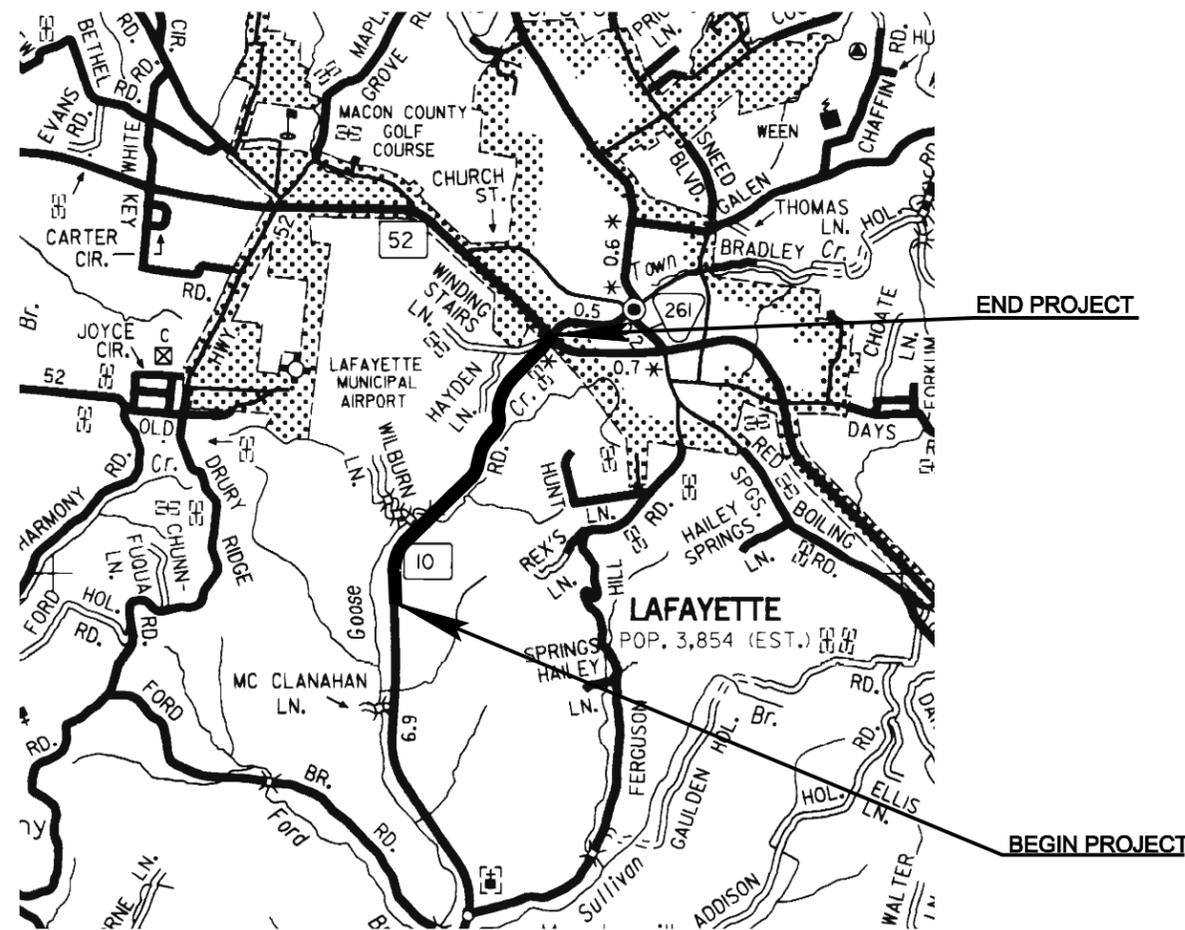
FROM: SOUTH OF GOOSE CREEK
TO: STATE ROUTE 52 IN LAFAYETTE

STATE HIGHWAY NO. 10 F.A.H.S. NO.

TENN.	YEAR	SHEET NO.
	2006	1
FED. AID PROJ. NO.		
STATE PROJ. NO.		



PROJECT LOCATION



SCALE: 1" = 1/2 MI. ±

SPECIAL NOTES

PROPOSALS MAY BE REJECTED BY THE COMMISSIONER IF ANY OF THE UNIT PRICES CONTAINED THEREIN ARE OBVIOUSLY UNBALANCED, EITHER EXCESSIVE OR BELOW THE REASONABLE COST ANALYSIS VALUE.

THIS PROJECT TO BE CONSTRUCTED UNDER THE STANDARD SPECIFICATIONS OF THE TENNESSEE DEPARTMENT OF TRANSPORTATION DATED MARCH 1, 1995 AND ADDITIONAL SPECIFICATIONS AND SPECIAL PROVISIONS CONTAINED IN THE PLANS AND IN THE PROPOSAL CONTRACT

DESIGNER STEVE HYLTON CHECKED BY FRANK FULGHAM, KEN HERRELL

APPROVED: _____
CHIEF ENGINEER

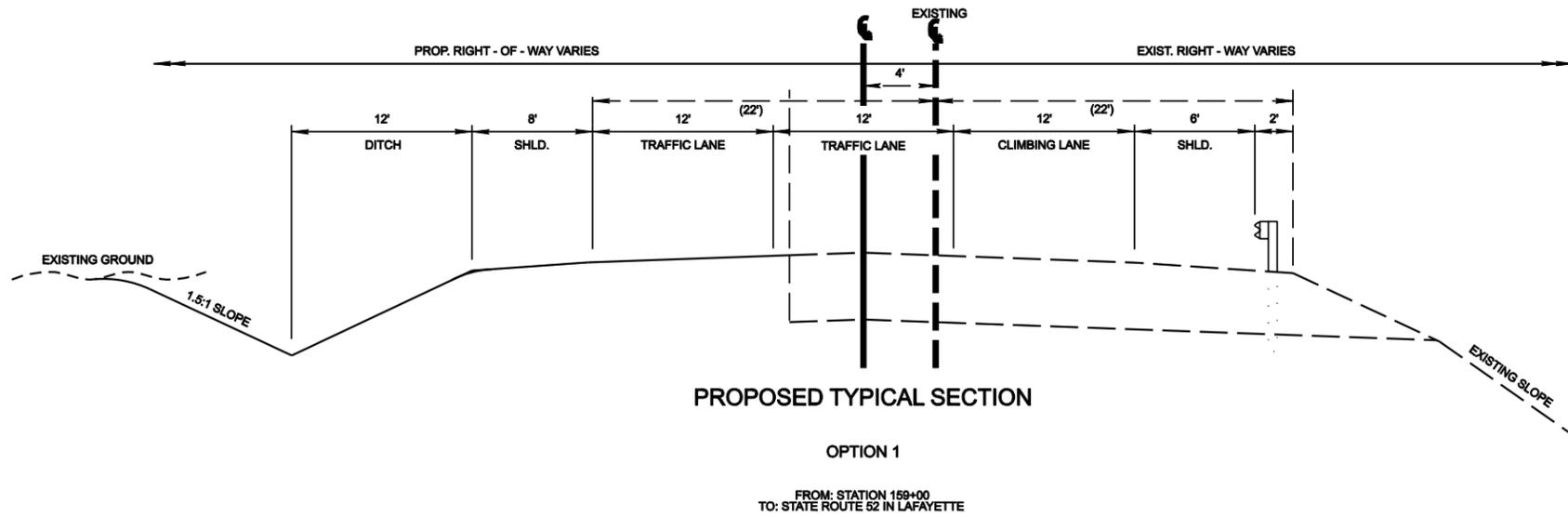
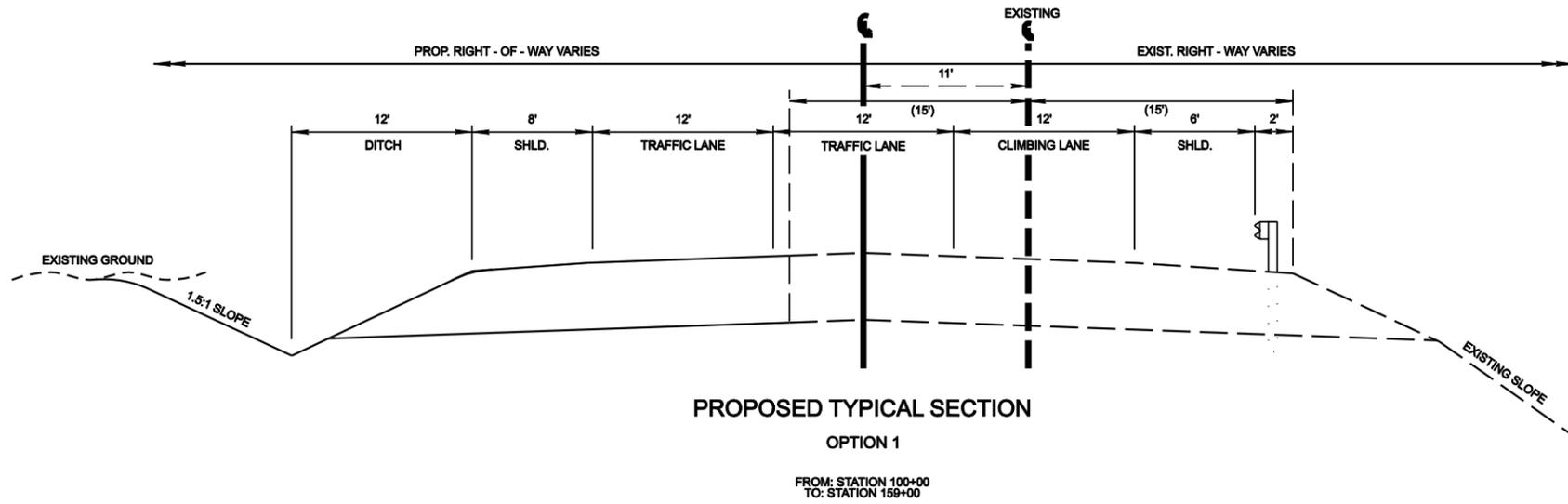
DATE: _____

APPROVED: _____
COMMISSIONER

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

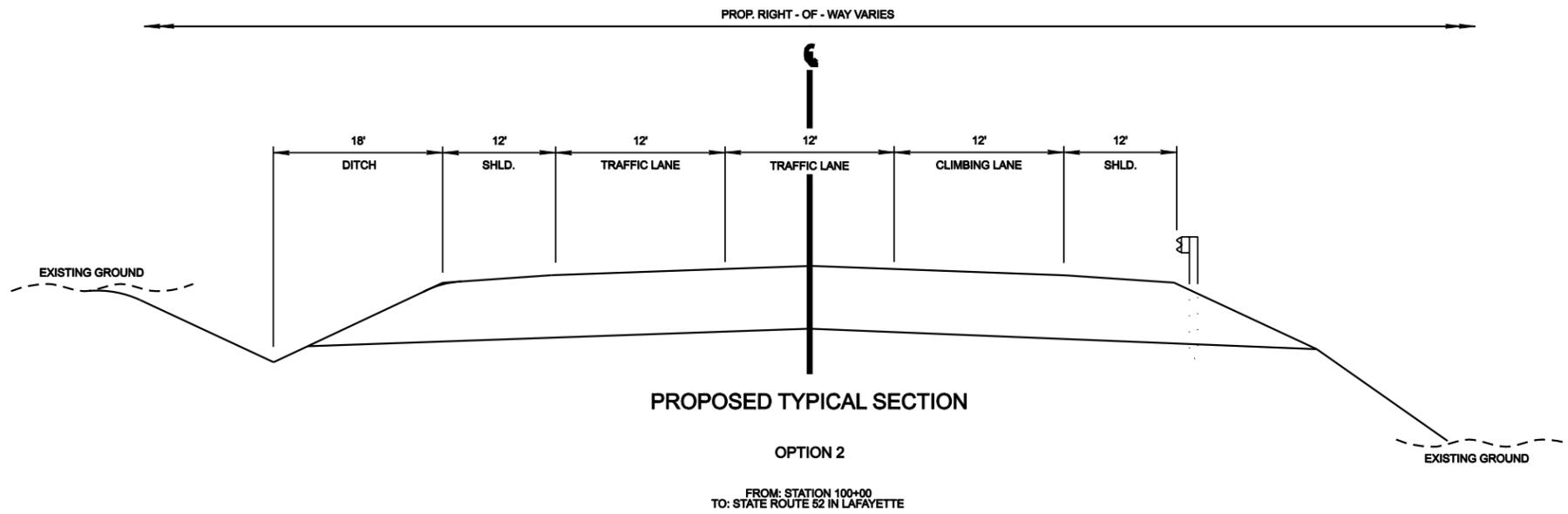
APPROVED: _____
DIVISION ADMINISTRATOR DATE

TYPE	YEAR	PROJECT NO.	SHEET NO.
	2006		2



6/13/2006 X:\Projects\MACON_new\SR10\3_Lane_Section\Scheme_1\Sheets\SHEET02noBreak.dgn

TYPE	YEAR	PROJECT NO.	SHEET NO.
	2006		2A

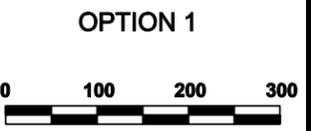


6/13/2006
 X:\Projects\MACON_new\SR10\3_Lane_Section\Scheme_1\Sheets\Sheet02noBreak.dgn

TYPE	YEAR	PROJECT NO.	SHEET NO.
	2006		3



6/13/2006
 X:\Projects\MACON_new\SR10\3.Lane_Section\Scheme\1\Sheets\Sheet03.dgn



TERRAIN DATA DERIVED FROM
 U.S.G.S. TOPOGRAPHIC MAPS
 COORDINATE VALUES ARE NAD/83(1995)

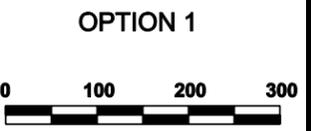
STATE OF TENNESSEE
 DEPARTMENT OF TRANSPORTATION

MACON COUNTY
 STATE ROUTE 10

TYPE	YEAR	PROJECT NO.	SHEET NO.
	2006		4



6/13/2006
 X:\Projects\MACON_new\SR10\3.Lane_Section\Scheme\1\Sheets\Sheet04.dgn



TERRAIN DATA DERIVED FROM
 U.S.G.S. TOPOGRAPHIC MAPS
 COORDINATE VALUES ARE NAD(83)(1995)

STATE OF TENNESSEE
 DEPARTMENT OF TRANSPORTATION

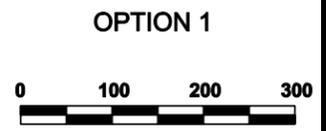
**MACON
 COUNTY**
 STATE ROUTE 10

TYPE	YEAR	PROJECT NO.	SHEET NO.
	2006		5



CURVE FEC3
 PI 154+83.25
 N 792.487.1874
 E 1,956.397.1744
 Δ 30° 22' 06" (RT)
 D 6' 00' 00"
 R 954.93
 L 506.14
 T 259.17
 SE 0.000 FT/FT
 DESIGN SPEED 00 MPH
 TRANS. LENGTH 000

CURVE FEC2
 PI 146+79.30
 N 791.691.6552
 E 1,956.216.5638
 Δ 33° 08' 37" (LT)
 D 8' 00' 00"
 R 716.20
 L 414.30
 T 213.12
 SE 0.000 FT/FT
 DESIGN SPEED 00 MPH
 TRANS. LENGTH 000



TERRAIN DATA DERIVED FROM
 U.S.G.S. TOPOGRAPHIC MAPS
 COORDINATE VALUES ARE NAD83(1995)

STATE OF TENNESSEE
 DEPARTMENT OF TRANSPORTATION

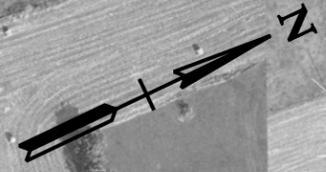
MACON
 COUNTY
 STATE ROUTE 10

TYPE	YEAR	PROJECT NO.	SHEET NO.
	2006		6

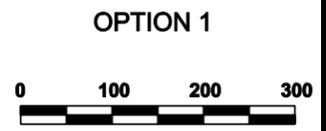
CURVE FEC4
PI 162+24.44
N 793.036, 3694
E 1.956, 913, 6084
Δ 48° 14' 53" (LH)
D 11' 00' 00"
R 520.87
L 438.62
T 233.26
SE 0.000 FT/FT
DESIGN SPEED 00 MPH
TRANS. LENGTH 000

CURVE FEC5
PI 168+87.58
N 793.724, 7296
E 1.956, 852, 7131
Δ 31° 21' 49" (RT)
D 5' 00' 00"
R 1,145.92
L 627.27
T 321.71
SE 0.000 FT/FT
DESIGN SPEED 00 MPH
TRANS. LENGTH 000

CURVE FEC6
PI 175+12.53
N 794, 299, 3813
E 1,957, 136, 9271
Δ 18° 27' 32" (RT)
D 3' 30' 00"
R 1,637.02
L 527.40
T 266.00
SE 0.000 FT/FT
DESIGN SPEED 00 MPH
TRANS. LENGTH 000



6/13/2006
X:\Projects\MACON_new\SR10\3.Lane_Section\Scheme_1\Sheets\Sheet06.dgn



TERRAIN DATA DERIVED FROM
U.S.G.S. TOPOGRAPHIC MAPS
COORDINATE VALUES ARE NAD83(1995)

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

MACON
COUNTY
STATE ROUTE 10

TYPE	YEAR	PROJECT NO.	SHEET NO.
	2006		7



CURVE FEC8
 P1 191+49.79
 N 795,480.2075
 E 1,958,276.7207
 Δ 3° 10' 18" (RT)
 D 2° 00' 00"
 R 2,864.79
 L 158.58
 T 79.31
 SE 0.000 FT/FT
 DESIGN SPEED 00 MPH
 TRANS. LENGTH 000

CURVE FEC7
 P1 189+01.59
 N 795,288.7131
 E 1,958,118.5297
 Δ 5° 12' 56" (LT)
 D 2° 00' 00"
 R 2,864.79
 L 260.78
 T 130.48
 SE 0.000 FT/FT
 DESIGN SPEED 00 MPH
 TRANS. LENGTH 000

OPTION 1



TERRAIN DATA DERIVED FROM
 U.S.G.S. TOPOGRAPHIC MAPS
 COORDINATE VALUES ARE NAD/83(1995)

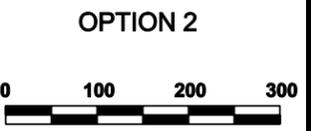
STATE OF TENNESSEE
 DEPARTMENT OF TRANSPORTATION

MACON
 COUNTY
 STATE ROUTE 10

TYPE	YEAR	PROJECT NO.	SHEET NO.
	2006		8



6/13/2006
 X:\Projects\MACON_new\SR10\3.Lane_Section\Scheme_2\Sheets\Sheet08.dgn



TERRAIN DATA DERIVED FROM
 U.S.G.S. TOPOGRAPHIC MAPS
 COORDINATE VALUES ARE NAD/83(1995)

STATE OF TENNESSEE
 DEPARTMENT OF TRANSPORTATION

MACON COUNTY
 STATE ROUTE 10

TYPE	YEAR	PROJECT NO.	SHEET NO.
	2006		9

CURVE FEC1
 PI 114+56.62
 N 789,410.4408
 E 1,953,856.2830
 Δ 47° 51' 36" (RT)
 D 5° 00' 00"
 R 1,145.92
 L 957.20
 T 508.52
 SE 0.000 FT/FT
 DESIGN SPEED 55 MPH
 TRANS. LENGTH 000



SEE SHEET NO. 8

ABEND GARAGE

PROP. R.O.W.

PROP. R.O.W.

WILBURN LN.

PROP. R.O.W.

125

PRES. & PROP. R.O.W.

KIRBY'S TIRES SALES

PROP. R.O.W.

SEE SHEET NO. 10

MATCH LINE

OPTION 2



TERRAIN DATA DERIVED FROM
 U.S.G.S. TOPOGRAPHIC MAPS
 COORDINATE VALUES ARE NAD/83(1995)

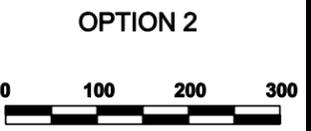
STATE OF TENNESSEE
 DEPARTMENT OF TRANSPORTATION

MACON COUNTY
 STATE ROUTE 10

TYPE	YEAR	PROJECT NO.	SHEET NO.
	2006		10



6/13/2006
 X:\Projects\MACON_new\SR10\3.Lane_Section\Scheme_2\Sheets\Sheet10.dgn



TERRAIN DATA DERIVED FROM
 U.S.G.S. TOPOGRAPHIC MAPS
 COORDINATE VALUES ARE NAD/83(1995)

STATE OF TENNESSEE
 DEPARTMENT OF TRANSPORTATION

MACON COUNTY
 STATE ROUTE 10

TYPE	YEAR	PROJECT NO.	SHEET NO.
	2006		11



CURVE FSC6
 PI 172+51.43
 N 794,182.6118
 E 1,957,021.0698
 Δs 23° 48' 09" (RT)
 θs 2° 30' 00"
 Δc 18° 48' 09" (RT)
 Dc 2° 00' 00"
 Rc 2,864.79
 Lc 940.13
 Ts 728.96
 Ls 250.00
 SE 0.000 FT/FT
 DESIGN SPEED 55 MPH
 TRANS. LENGTH 000

SEE SHEET NO. 10

SEE SHEET NO. 12

OPTION 2



TERRAIN DATA DERIVED FROM
 U.S.G.S. TOPOGRAPHIC MAPS
 COORDINATE VALUES ARE NAD83(1995)

STATE OF TENNESSEE
 DEPARTMENT OF TRANSPORTATION

MACON
 COUNTY
 STATE ROUTE 10

TYPE	YEAR	PROJECT NO.	SHEET NO.
	2006		12



6/13/2006
X:\Projects\MACON_new\SR10\3. Lane_Section\Scheme_2\Sheets\Sheet2.dgn

CURVE FEC8
 PI 190+40.01
 N 795,480.2075
 E 1,958,276.7207
 Δ 3° 10' 18" (RT)
 D 2° 00' 00"
 R 2,864.79
 L 158.58
 T 79.31
 SE 0.000 FT/FT
 DESIGN SPEED 55 MPH
 TRANS. LENGTH 000

CURVE FEC7
 PI 187+91.81
 N 795,288.7131
 E 1,958,118.5297
 Δ 5° 12' 56" (LT)
 D 2° 00' 00"
 R 2,864.79
 L 260.78
 T 130.48
 SE 0.000 FT/FT
 DESIGN SPEED 55 MPH
 TRANS. LENGTH 000

OPTION 2

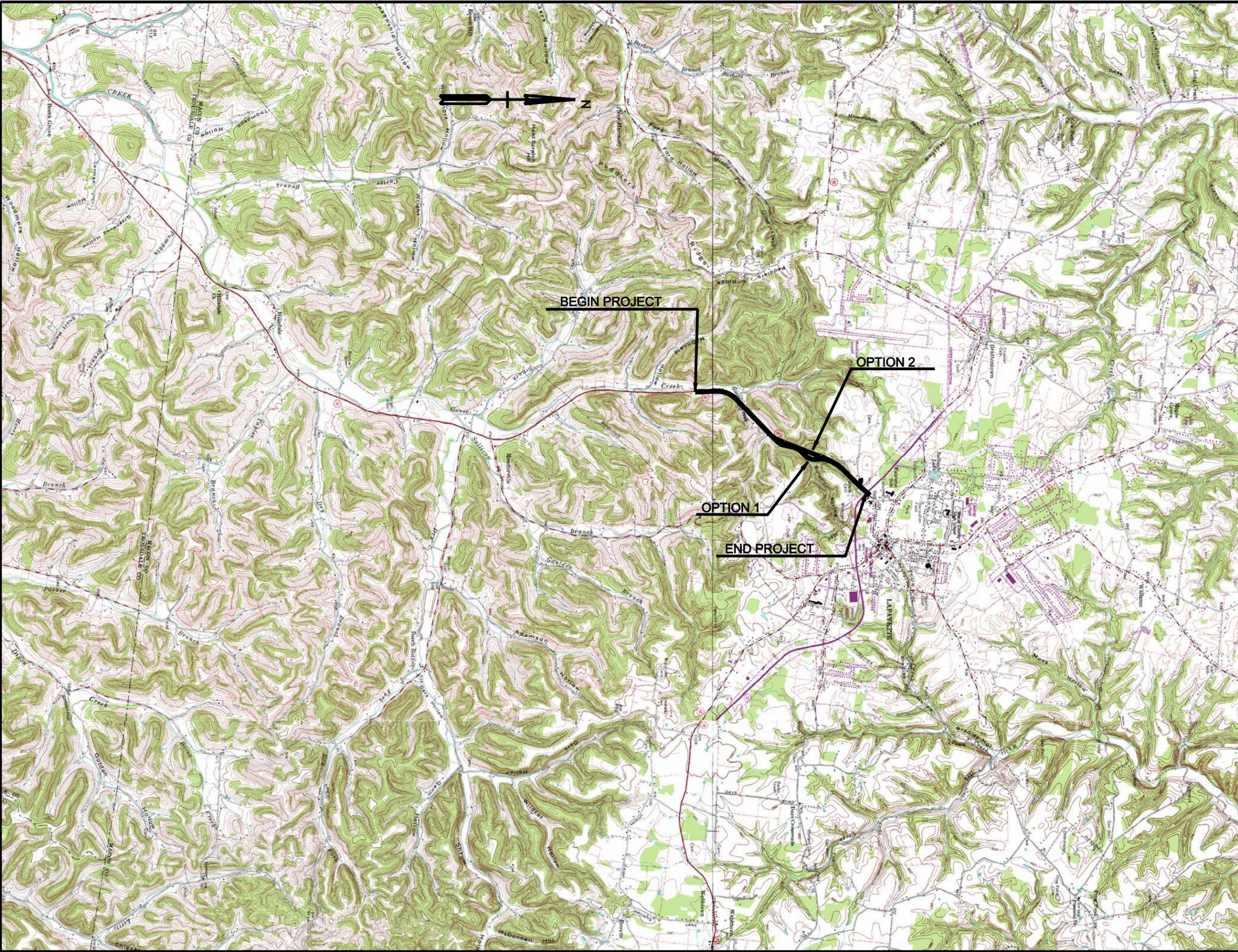


TERRAIN DATA DERIVED FROM
 U.S.G.S. TOPOGRAPHIC MAPS
 COORDINATE VALUES ARE NAD83(1995)

STATE OF TENNESSEE
 DEPARTMENT OF TRANSPORTATION

MACON COUNTY
 STATE ROUTE 10

TYPE	YEAR	PROJECT NO.	SHEET NO.
	2006		13



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

MACON COUNTY

STATE ROUTE 10