

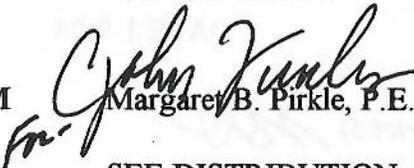
ORIGINAL TO GENERAL FILES

D.O.T. 66

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE STP-111-1(28) Chatham County **OFFICE** Preconstruction
P. I. No. 532780 **DATE** February 5, 2004

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

TO SEE DISTRIBUTION

SUBJECT REVISED PROJECT CONCEPT REPORT APPROVAL

Attached for your files is the approval for subject project.

MBP/cj

Attachment

DISTRIBUTION:

David Mulling
Harvey Keepler
Jerry Hobbs
Percy Middlebrooks
Michael Henry
Phillip Allen
Joe Palladi (file copy)
Brent Story
Gary Priester
BOARD MEMBER

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

JAN 15 2004

INTERDEPARTMENTAL CORRESPONDENCE

FILE *STP-111-1(28) Chatham Co.
Abercorn Intersection Improvements at Largo
P. I. Number 532780*

OFFICE Jesup

DATE 1-9-04

FROM: *Gary Priester, District Engineer (District 5)*
Christy Lovett, Project Manager
TO: *Meg Pirkle, Assistant Director of Preconstruction*
SUBJECT *Revised Project Concept Report*

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 revision consists of widening to provide dual left turn lanes for the movement from westbound SR 204/Abercorn St to southbound CS 1149/Largo Dr. and will require construction of an additional travel lane on SR 204 and re-configuration of the intersections. The reconstruction of CS 1149/Largo Dr. will also be required in order to extend dual southbound lanes.

This project as proposed will improve safety and operational efficiency of this intersection. The proposed improvements are necessary to maintain an acceptable level of service on the roadway and at the intersection. The current ADT for SR 204 is 45,500 and CS 1149 is 5710.

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

DATE *1/20/04*

Joseph P. Pirkle
State Transportation Planning Administrator

Distribution:

*General File Unit, Atlanta
Jesup Files
Project Files
Anthony Collins, Preconstruction Engineer
David Mulling, Office of Engineering Services
Harvey Keepler, State Environmental/Location Engineer*

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

**REVISED PROJECT CONCEPT REPORT
STP-111-1(28)
CHATHAM COUNTY**

FEDERAL ROUTE NO:
STATE ROUTE NO: 204
GADOT P.I. NO: 532780

NEED AND PURPOSE: C.S. 1149/Largo Drive is the principal connection to the Windsor Forest Area from S.R. 204/Abercorn Street. It serves the commercial area just south of Abercorn St. and the Windsor Forest High School as well as the residential areas to the south on both sides of Largo Drive. Traffic using the high-volume Abercorn/Largo connection continues to increase, especially during peak hours.

To improve the safety and operational efficiency of this intersection, it will be necessary to provide dual left turn lanes for the movement from westbound S.R. 204/Abercorn St. to southbound C.S. 1149/Largo Dr. and will require construction of an additional travel lane on S.R. 204 and re-configuration of the intersection. Reconstruction of C.S. 1149/Largo Dr. will also be required in order to extend dual southbound lanes.

S.R. 204/Abercorn Street is a major urban arterial facilitating the movement of east-west traffic on the City of Savannah's south side. The proposed project involves the widening of S.R. 204/Abercorn Street with an additional through lane in each direction. The proposed improvements are necessary to maintain an acceptable level of service on the roadway and at the intersections. Failure to implement the improvements will increase congestion and driver delays, resulting in an increased accident rate. The purpose of the proposed improvements is to increase the roadway and intersection capacity to the point that the current level of service is maintained or bettered in the future.

APPROVED CONCEPT PROJECT LOCATION:	Length – 0.41 mile
Termini – <u>S.R. 204</u>	<u>C.S. 1149</u>
From M.P.: 16.62	1.82
To M.P.: 16.88	1.97

Phillip Allen, Office of Traffic Safety and Design
Joe Palladi, Office of Planning
Percy Middlebrooks, Office of Financial Management
Teresa Scott, District and Programming

REVISION PROJECT CONCEPT REPORT
 2011-11-15
 CLAYTON COUNTY

FEDERAL ROUTE NO.
 STATE ROUTE NO. 204
 COUNTY NO. 13380

NEED AND PURPOSE: C-2 Highway Drive is the principal connector to the
 Windsor Forest Area from S.R. 204/Abbeville Street. It serves the commercial
 area just south of Abbeville St. and the Windsor Forest High School as well as the
 residential areas to the north on both sides of Largo Drive. Traffic using the high-
 volume Abbeville/Highway Drive corridor continues to increase, especially during peak
 hours.

To improve the safety and operational efficiency of this intersection, it will be
 necessary to provide dual left turn lanes for the movement from westbound S.R.
 204/Abbeville St. to southbound C-2 Highway Drive and will require construction
 of an additional travel lane on S.R. 204 and re-configuration of the intersection.
 Reconstruction of C-2 Highway Drive will also be required in order to extend
 dual southbound lanes.

S.R. 204/Abbeville Street is a major urban arterial facilitating the movement of
 east-west traffic on the City of Savannah's south side. The proposed project
 involves the widening of S.R. 204/Abbeville Street with an additional through lane
 in each direction. The proposed improvements are necessary to maintain an
 acceptable level of service on the roadway and at the intersection. Failure to
 implement the improvements will increase congestion and driver delays, resulting
 in and increased accident rate. The purpose of the proposed improvements is to
 increase the roadway and intersection capacity to the point that the current level of
 service is maintained or bettered in the future.

REVISION PROJECT LOCATION	Length - 0.21 miles
From M-1	1.83
To M-2	1.07

DESCRIPTION OF APPROVED CONCEPT: The approved concept consists of constructing dual left turn lanes from S.R. 204 westbound to Largo Dr. (C.S. 1149) southbound, re-configuration of the lane designations for the intersection as well as additional construction. Reconstruction of Largo Dr. will also be required in order to extend dual southbound lanes. This project will also include the upgrading of the traffic and pedestrian signals.

PDP CLASSIFICATION: Major _____ Minor X

FEDERAL OVERSIGHT: Full Oversight (), Exempt (X), State Funded (), or Other ()

FUNCTIONAL CLASSIFICATION: S.R. 204 ----- Urban Principle Arterial
C.S. 1149 ----- Urban Collector

U.S. ROUTE NUMBER(S): N/A

TRAFFIC AS SHOWN IN THE APPROVED CONCEPT:

Current Year:	S.R. 204	45,500 (1994 ADT)
	C.S. 1149	5,710 (1994 ADT)

PROPOSED FEATURES TO BE REVISED:

Typical Section – The approved project concept typical section on S.R. 204 called for three (3) through lanes in each direction. In order to satisfy the project purpose, the proposed S.R. 204 typical section will be revised by adding an additional through lane in each direction for a total of four in each direction. A right turn lane will be added for the S.R. 204 westbound to Largo Dr. northbound. No changes are proposed to the C.R. 1149 improvements.

Project Termini – The approved project concept termini were based on taper lengths for the widened section. With the additional widening for the through lanes, the additional taper lengths will extend the project termini on S.R. 204 by approximately 255 feet to the west and 475 feet to the east.

Right-of-Way – The right-of-way limits will be increased to account for the widened typical section. This will increase the number of right-of-way acquisition parcels from seven (7) to eighteen (18). This will require a reevaluation of the Categorical Exclusion.

REVISED FEATURES TO BE APPROVED:

Proposed Typical Section – Attachment 2

Proposed Project Location: Length – 0.55 miles

Termini –	<u> S.R. 204 </u>	<u> C.S. 1149 </u>
From M.P.:	16.55	1.82
To M.P.:	16.95	1.97

Increased Right-of-Way Limits

UPDATED TRAFFIC DATA (AADT):

Current Year (2004):	S.R. 204	48,000 (2004)
	C.S. 1149	10,000 (2004)
Design Year (2024):	S.R. 204	75,000 (2024)
	C.S. 1149	16,600 (2024)

PROGRAMMED SCHEDULE:

P.E. 2004 R/W 2004 Construction 2006

REVISED COST ESTIMATES: (See Attachment 3)

1. Construction cost - including inflation and E&C,
2. Right-of-way, and
3. Utilities

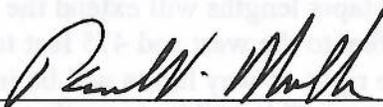
IS THE PROJECT LOCATED IN A NON-ATTAINMENT AREA? NO

RECOMMENDATION: Recommend that the proposed revision to the concept be approved for implementation.

Attachments:

1. Sketch Map,
2. Typical Section,
3. Cost Estimate.

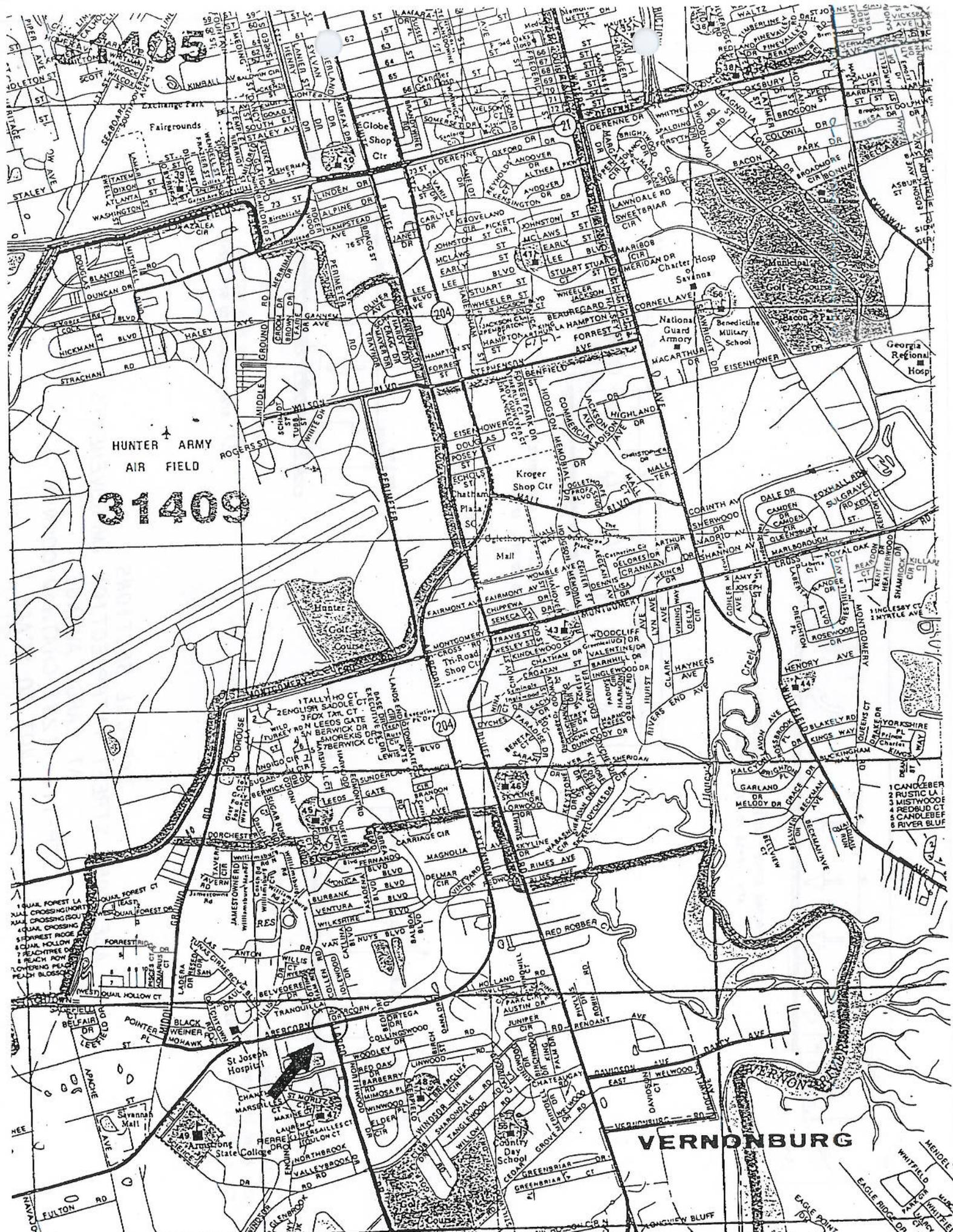
Concur: 
Director of Preconstruction

Approve: 
Chief Engineer

HUNTER ARMY AIR FIELD

31409

VERNONBURG

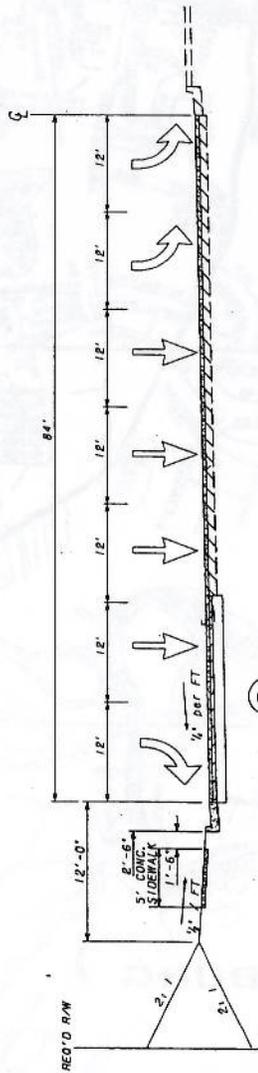


- 1 QUAIL FOREST LA
- 2 QUAIL CROSSING (NORTH)
- 3 QUAIL CROSSING (SOUTH)
- 4 QUAIL CROSSING
- 5 QUAIL HOLLOW DR
- 6 PEACH ROW
- 7 LOWERING PEACH
- 8 PEACH BLOSSOM

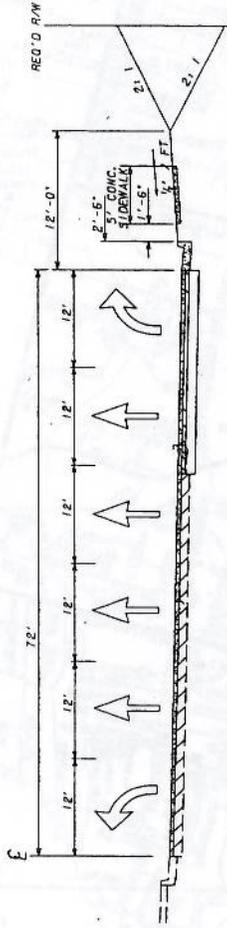
- 1 CANOE BEAR
- 2 RUSTIC LA
- 3 MISTWOOD
- 4 REDBUD CT
- 5 CANDLEBEEF
- 6 RIVER BLUF

St Joseph Hospital

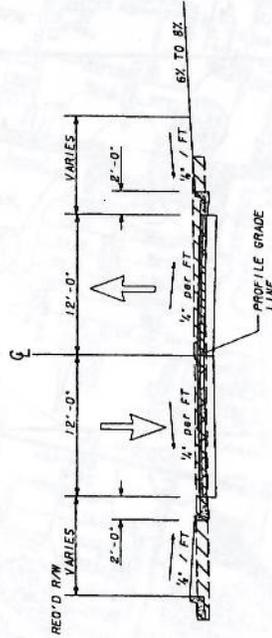
State College



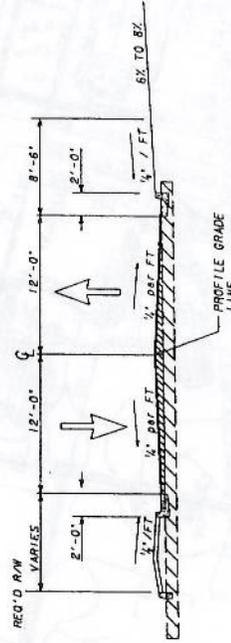
⑤ ABERCORN STREET (EAST OF LARGO DRIVE)
ATA. 18+56 TO STA. 21+56



⑥ ABERCORN STREET (WEST OF LARGO DRIVE)
STA. 14+20 TO STA. 17+20

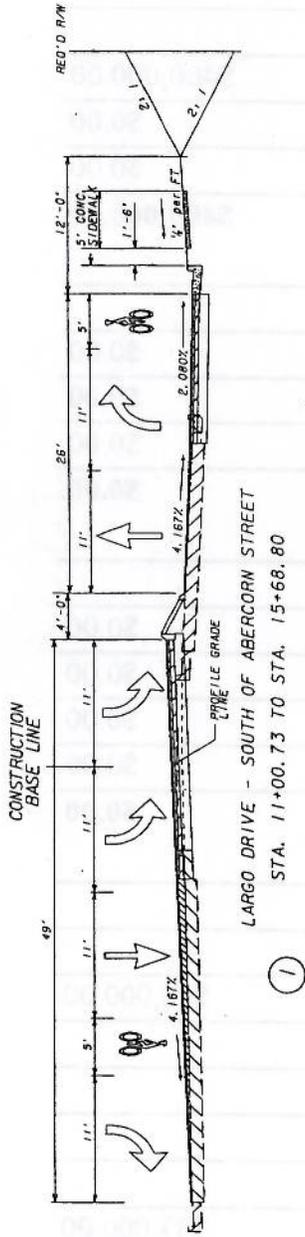


⑦ LARGO FRONTAGE ROAD
STA. 10+80.00 TO STA. 11+00.00
STA. 12+50.00 TO STA. 13+03.30



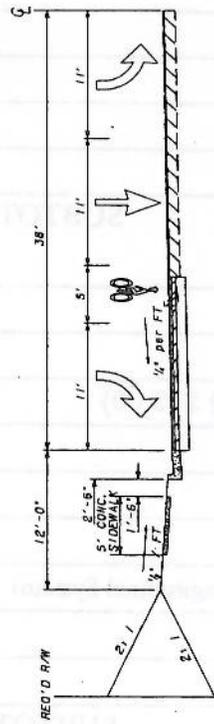
⑧ LARGO FRONTAGE ROAD
STA. 11+00.00 TO STA. 12+50.00

TYPICAL SECTIONS
ABERCORN STREET INTERSECTION IMPROVEMENTS
AT LARGO AVENUE
STP-111-1(28) CHATHAM COUNTY
NOT TO SCALE



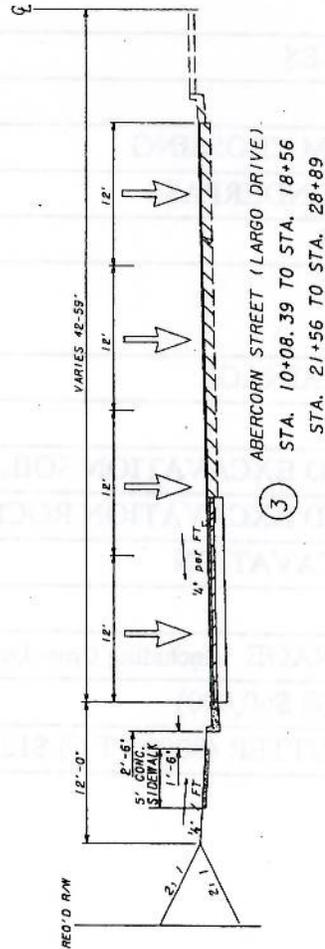
LARGO DRIVE - SOUTH OF ABERCORN STREET
STA. 11+00.73 TO STA. 15+68.80

①



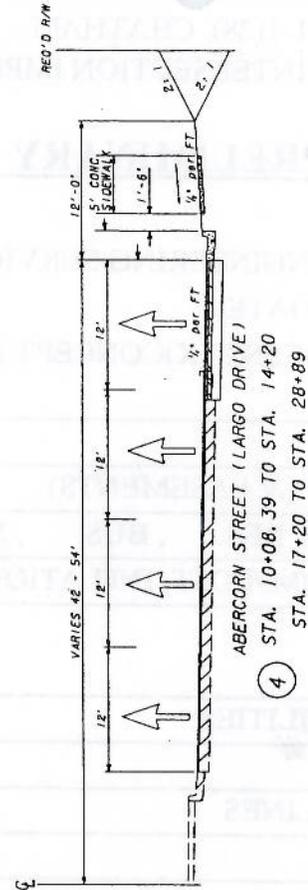
LARGO DRIVE - NORTH OF ABERCORN STREET
STA. 11+15.59 TO STA. 12+65.44

②



ABERCORN STREET (LARGO DRIVE).
STA. 10+08.39 TO STA. 18+56
STA. 21+56 TO STA. 28+89

③



ABERCORN STREET (LARGO DRIVE)
STA. 10+08.39 TO STA. 14+20
STA. 17+20 TO STA. 28+89

④

TYPICAL SECTIONS
ABERCORN STREET INTERSECTION IMPROVEMENTS
AT LARGO AVENUE
STP-111-1(28) CHATHAM COUNTY
NOT TO SCALE

PRELIMINARY COST ESTIMATE

PREPARED BY: EMC ENGINEERING SERVICES, INC.

ESTIMATED LETTING DATE:

()PROGRAMMING PROCESS (X)CONCEPT DEVELOPMENT ()DURING PROJECT DEV.

A. RIGHT-TO-WAY:		
1. PROPERTY (LAND & EASEMENTS)		\$400,000.00
2. DISPLACEMENTS; RES: , BUS: , M.H.:		\$0.00
3. OTHER COST (ADM./COST, INFLATION)		\$0.00
	SUBTOTAL	\$400,000.00
B. REIMBURSABLE UTILITIES:		
1. RAILROAD		\$0.00
2. TRANSMISSION LINES		\$0.00
3. SERVICES		\$0.00
	SUBTOTAL	\$0.00
C. MAJOR STRUCTURES		
1. WALLS		\$0.00
2. BRIDGE STREAM CROSSING		\$0.00
3. BRIDGE OVER/UNDERPASS		\$0.00
4. BOX CULVERTS		\$0.00
	SUBTOTAL	\$0.00
D. GRADING AND DRAINAGE:		
1. EARTHWORK		
a. UNCLASSIFIED EXCAVATION SOIL (4000 CY @ \$10.00)		\$40,000.00
b. UNCLASSIFIED EXCAVATION ROCK		
c. BORROW EXCAVATION		
2. DRAINAGE:		
a. MINOR DRAINAGE (Including Cross Drain Pipe and Longitudinal System)		
(0.55 MILES @ \$60,000)		\$33,000.00
b. CURB AND GUTTER (8000 FT @ \$12.00)		\$96,000.00
	SUBTOTAL	\$169,000.00

E. BASE AND PAVING:		
1. GRADED AGGREGATE BASE (13,000 SY @ \$7.00)		\$91,000.00
2. ASPHALT PAVING:		
a. SURFACE (1,000 TN @ \$45.00)		\$45,000.00
b. BINDER (1400 TN @ \$45.00)		\$63,000.00
c. BASE (2700 TN @ \$45.00)		\$121,500.00
d. BITUMINOUS TACK COAT (1200 G @ \$1.00)		\$1,200.00
3. CONCRETE PAVING (Whitetopping - 5100 SY @ \$25.00)		\$127,500.00
4. OTHER		\$30,000.00
	SUBTOTAL	\$479,200.00
F. LUMP ITEMS:		
1. GRASSING (0.60 AC @ \$2,000)		\$1,200.00
2. CLEARING AND GRUBBING (3.7 AC @ \$6,000)		\$22,200.00
3. LANDSCAPING		\$0.00
4. EROSION CONTROL (0.55 MI @ \$60,000)		\$33,000.00
5. TRAFFIC CONTROL (0.55 MI @ \$40,000)		\$22,000.00
6. TRAFFIC SIGNAL INSTALLATION		\$50,000.00
	SUBTOTAL	\$128,400.00
G. MISCELLANEOUS:		
1. LIGHTING		\$0.00
2. SIGNING AND MARKING (0.55 MI @ \$40,000)		\$22,000.00
3. GUARDRAIL		\$0.00
4. SIDEWALK (2,500 SY @ \$24.00)		\$60,000.00
5. TYPE IV STRAIN POLES (4 @ \$7,500)		\$30,000.00
6. OTHER (0.55 MI @ \$100,000)		\$55,000.00
	SUBTOTAL	\$167,000.00
6. SPECIAL FEATURES: NONE		
	SUBTOTAL	\$0.00

ESTIMATE SUMMARY

		SECTION COST (per mile)
A. RIGHT-OF-WAY	\$400,000.00	\$727,273
B. REIMBURSABLE UTILITIES	\$0.00	

CONSTRUCTION COST SUMMARY

C. MAJOR STRUCTURES	\$0	
D. GRADING AND DRAINAGE	\$169,000	
E. BASE AND PAVING	\$479,200	
F. LUMP ITEMS	\$128,400	
G. MISCELLANEOUS	\$167,000	
H. SPECIAL FEATURES	<u>\$0</u>	
SUBTOTAL CONSTRUCTION COST	\$943,600	\$1,715,636
E. & C. (10%)	\$94,000	
INFLATION 2 yr(s) @ 5% per year	<u>\$106,000</u>	
TOTAL CONSTRUCTION COST	\$1,143,600	\$2,079,273
<hr/>		
GRAND TOTAL PROJECT COST	\$1,543,600	\$2,806,545

This project is 100 percent in congressional District 12.