

ORIGINAL TO GENERAL FILES

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

**OFFICE OF DESIGN POLICY & SUPPORT
INTERDEPARTMENTAL CORRESPONDENCE**

FILE P.I. #0008565
CSAPD-0008-00(565)
Jackson County
Industrial Park-
Local Access Road

OFFICE Design Policy & Support

DATE March 12, 2010

FROM  Brent Story, State Design Policy Engineer

TO SEE DISTRIBUTION

SUBJECT **APPROVED CONCEPT REPORT AND NOTICE OF LOCATION & DESIGN**

Attached is the approved Concept Report and Notice of Location and Design Approval for the above subject project.

Attachment

DISTRIBUTION:

Ron Wishon, State Project Review Engineer
Genetha Rice-Singleton, State Program Control Administrator
Glenn Bowman, State Environmental Administrator
Angela Alexander, State Transportation Planning Administrator
Bobby Hilliard, State Program Delivery Engineer
Paul Liles, State Bridge Engineer
Michael Henry, Systems & Classification Branch Chief
Ken Thompson, Statewide Location Bureau Chief
Keith Golden, State Traffic Operations Engineer
Todd McDuffie, District Engineer
Teresa Walcott, Project Manager
Angela Robinson, Financial Management Administrator
BOARD MEMBER

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENTAL CORRESPONDENCE

FILE: P.I. No. 0008565, Jackson County
CSAPD-0008-00(565)
Industrial Park Local Access Road

OFFICE: Design Policy & Support

DATE: February 24, 2010

FROM:  Brent A. Story, P.E., State Design Policy Engineer

TO: Gerald M. Ross, P.E., Chief Engineer

SUBJECT: *PROJECT CONCEPT REPORT*

This project comprises the Industrial Park Local Access Road/MLK Jr Drive Extension on new location beginning at Galilee Church Road and continuing in a northerly direction and terminating at the existing Industrial Park Local Access Road/MLK Jr Drive at the intersection with MLK Jr Avenue. The length of the project is 0.52 miles. This project is an Appalachian Development Highway System (ADHS) project. The project meets the Appalachian Regional Commission Access Road Program's goal to better link the region's transportation network. This project will reconstruct the existing dirt road to provide access to the Central Jackson Industrial Park in the City of Jefferson. The traffic volumes along the access road are expected to be 1250 VPD by 2011 and 1500 VPD by 2031.

The construction proposes a two-lane roadway, one 12ft lane in each direction with 6ft rural shoulders (2ft paved). Improvements on Galilee Church Road will add an eastbound left turn lane at the intersection with MLK Jr Drive and add a westbound right turn lane at the intersection with US 129/Jefferson Bypass. Access will be controlled by permit and the proposed speed design is 35MPH. Traffic will be maintained during construction.

Environmental concerns include requiring a COE 404 permit; a Categorical Exclusion will be prepared; a Public Information Open House was held August 18, 2009; time saving procedures appear to be appropriate for this minor project with low property impacts.

The estimated costs for this project are:

	<u>PROPOSED</u>	<u>APPROVED</u>	<u>FUNDING</u>	<u>PROG DATE</u>
Construction (includes E&C)	\$2,104,633	\$982,823	L980L	2011 (proposed)
Right-of-Way & Utilities*	Local	Local		

* PFA signed on 3-25-09 for the City of Jefferson to do PE, ROW, UTIL & 100% CST over \$600,000

I recommend this project concept be approved.

BAS:DRP

Attachment

Concur: 
Ben Buchan, P.E., Director of Engineering

Approve: 
for Rodney N. Barry, P.E., Administrator, FHWA

Approve: 
Gerald M. Ross, P.E., Chief Engineer

Date: 3/2/2010

Recommended for Approval:

 3/8/2010

Federal Highway Administration

Project Concept Report page 1
Project Number CSAPD-0008-00(565)
P. I. Number 0008565
Jackson County
City of Jefferson

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

**PROJECT CONCEPT REPORT
For
Jackson County Industrial Park
Local Access Road**

Project Number CSAPD-0008-00(565)
Jackson County
City of Jefferson
P. I. Number 0008565

(See following page for Vicinity Map)

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

Recommendation for approval:

DATE <u>9/3/2009</u>	<u>Jessica A. Walcott</u> Project Manager
DATE <u>9/8/2009</u>	<u>CLC R McManis</u> District Engineer
DATE <u>9/14/09</u>	<u>Angelo J. Alford</u> State Transportation Planning Administrator
DATE _____	_____
DATE _____	State Transportation Financial Management Administrator
DATE _____	_____
DATE _____	State Environment/Location Engineer
DATE _____	_____
DATE _____	State Traffic Engineer
DATE _____	_____
DATE _____	Project Review Engineer

Project Concept Report page 1
Project Number CSAPD-0008-00(565)
P. I. Number 0008565
Jackson County
City of Jefferson

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

**PROJECT CONCEPT REPORT
For
Jackson County Industrial Park
Local Access Road**

Project Number CSAPD-0008-00(565)
Jackson County
City of Jefferson
P. I. Number 0008565

(See following page for Vicinity Map)

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

Recommendation for approval:

DATE 9/3/2009

DATE 9/8/2009

DATE _____

DATE _____

DATE 9/17/09

DATE _____

DATE _____

Jessica G. Walcott
Project Manager
GLENN M. MUMFORD
District Engineer

State Transportation Planning Administrator

State Transportation Financial Management Administrator
Alan Bonner
State Environment/Location Engineer

State Traffic Engineer

Project Review Engineer

Project Concept Report page 1
Project Number CSAPD-0008-00(565)
P. I. Number 0008565
Jackson County
City of Jefferson

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

**PROJECT CONCEPT REPORT
For
Jackson County Industrial Park
Local Access Road**

Project Number CSAPD-0008-00(565)
Jackson County
City of Jefferson
P. I. Number 0008565

(See following page for Vicinity Map)

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

Recommendation for approval:

DATE 9/3/2009

DATE 9/8/2009

DATE _____

DATE _____

DATE _____

DATE 9-15-09

DATE _____

Jessica G. Walcott
Project Manager
Cliff R. McManis
District Engineer

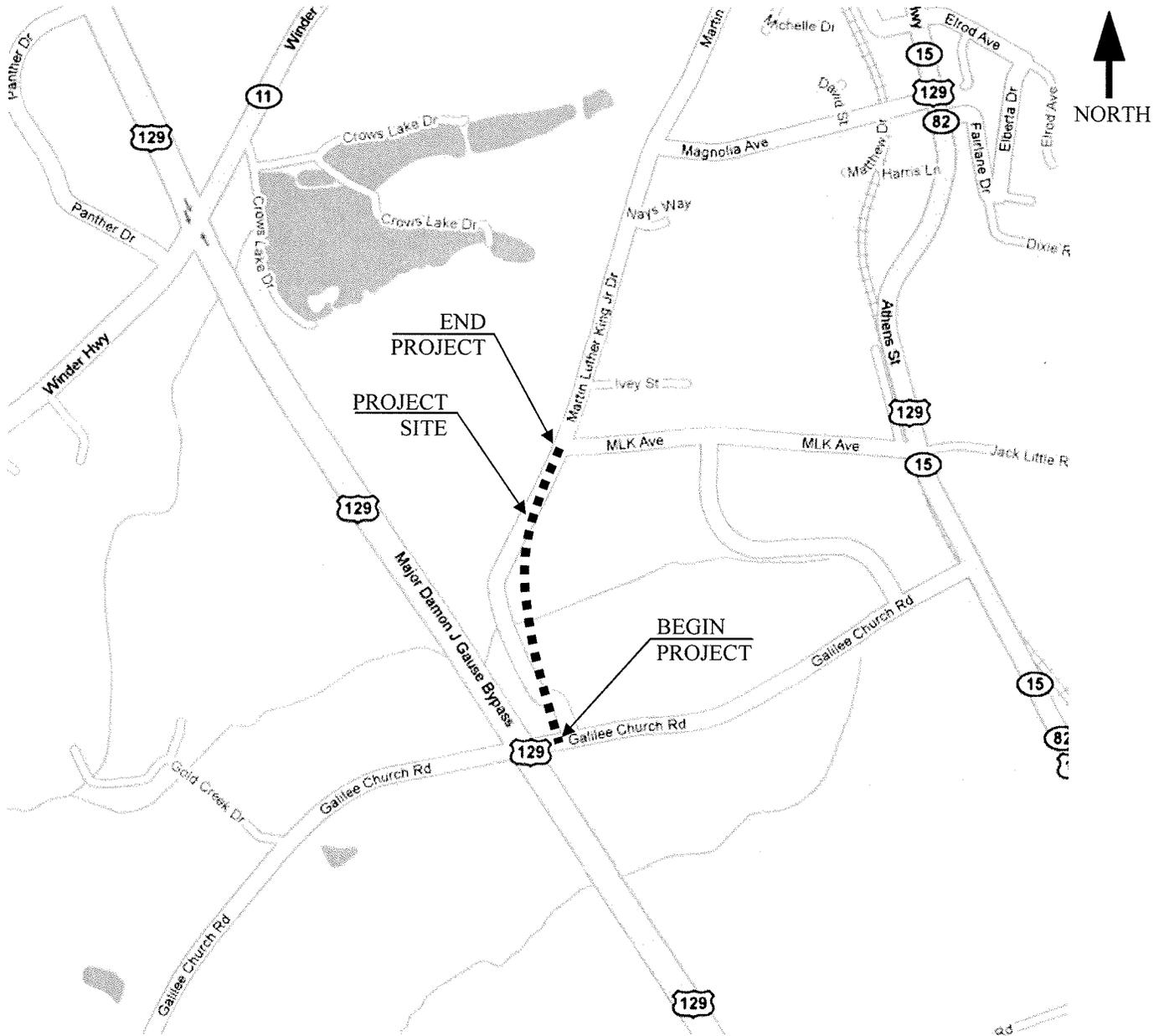
State Transportation Planning Administrator

State Transportation Financial Management Administrator

Paul R. Smith
State Environment/Location Engineer

State Traffic Engineer

Project Review Engineer



PROJECT LOCATION MAP
CSAPD-0008-00(565)
P.I. No. 008565
Jackson County Industrial Park Local Access Road
City of Jefferson, Jackson County, Georgia
(Not to Scale)

Project Concept Report page 3
Project Number CSAPD-0008-00(565)
P. I. Number 0008565
Jackson County
City of Jefferson

Need and Purpose: An existing dirt road named Martin Luther King Jr. Drive is to be reconstructed and realigned from Galilee Church Road to Martin Luther King Avenue to provide access to the Central Jackson Industrial Park in the City of Jefferson. This road will provide a much needed access to the Central Jackson Industrial Park for existing industries and potential new businesses seeking to locate in the park. As such, this road supports the Appalachian Regional Commission Goal #3: Develop and improve Appalachia's infrastructure to make the region economically competitive. The City of Jefferson and the surrounding area is in dire need of business investment and job creation for its citizens and residents. Among its benefits, this project is estimated to support the creation of 150 new jobs in the manufacturing area and the retention of 250 existing jobs in the Central Jackson Industrial Park.

Logical Termini:

The logical southern terminus for the Local Access Road to the Central Jackson Industrial Park is Galilee Church Road, including improvements at Galilee Church Road. These improvements consists of the addition of an eastbound left turn lane at the intersection with Martin Luther King Jr. Drive and the addition of a westbound right turn lane at the intersection with US 129 (a.k.a. Jefferson Bypass). The logical northern terminus for the Local Access Road to the Central Jackson Industrial Park is Martin Luther King Avenue. These are the logical termini since Galilee Church Road and Martin Luther King Avenue are paved roads suitable for the anticipated traffic generated by the proposed industrial development. The termini points are also locations where traffic to the access road will enter and exit the facility as turning movements from these adjacent roadways.

Traffic Volume and Level of Service:

Martin Luther King Jr. Drive (two lanes):

Existing Volumes (2009)	50 AADT
Level of Service	A

Martin Luther King Avenue (two lanes):

Existing Volumes (2009)	450 AADT
Level of Service	A

Galilee Church Road (two lanes):

Existing Volumes (2009)	850 AADT
Level of Service	A

Galilee Church Road at Martin Luther King Jr. Drive:

Existing Level of Service	A
Preferred Alternative Level of Service	A
"No-Build" Level of Service	A

General Land Use:

The land use in the immediate vicinity has been utilized for residential and industrial purposes. In the future, it is anticipated this area will grow into commercial and industrial uses. This road will

Project Concept Report page 4
Project Number CSAPD-0008-00(565)
P. I. Number 0008565
Jackson County
City of Jefferson

provide a much needed access to the Central Jackson Industrial Park for existing industries and potential new businesses seeking to locate in the park.

Project Description:

Project CSAPD-0008-00(565), PI #0008565 consists of the reconstruction of the existing dirt road to a new two-lane paved rural road from Galilee Church Road to Martin Luther King Avenue to provide access to the Central Jackson Industrial Park in the City of Jefferson in Jackson County. This includes improvements on Galilee Church Road to add an eastbound left turn lane at the intersection with Martin Luther King Jr. Drive and add a westbound right turn lane at the intersection with US 129 (a.k.a. Jefferson Bypass). The alignment of the preferred alternative begins approximately 350 ft. east of the intersection of Galilee Church Road and US 129 (a.k.a. Jefferson Bypass). It then runs north parallel to a property line, which is approximately 200 ft. east of the existing dirt road. Then the alignment runs along the existing Martin Luther King Jr. Drive dirt road for approximately 700 ft. to the end of the project at the intersection of Martin Luther King Jr. Drive and Martin Luther King Avenue. The estimated length for this alternative is 0.5 miles.

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

PDP Classification: Major Minor X

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

Functional Classification: Local Road

U. S. Route Number(s): N/A

State Route Number(s): N/A

Traffic (AADT):

Initial Design Year (2011): 1250

Design Year (2031): 1500

Existing design features:

- Typical Section: Existing 12' wide dirt road.
- Posted speed: N/A
- Minimum radius for curve: 95 ft.
- Maximum super-elevation rate for curve: N/A
- Maximum grade: 8%
- Width of right-of-way: No Existing Right-of-Way
- Major structures: None
- Major interchanges or intersections along the project: Beginning of project is at intersection of Galilee Church Road and Martin Luther King Jr. Drive
- Existing length of roadway segment: 0.52 Miles.

Proposed Design Features:

- Proposed typical section: Rural typical section with 2 - 12' wide asphalt travel lanes with 2' paved shoulders within 6' shoulders.

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Project Number CSAPD-0008-00(565)
P. I. Number 0008565
Jackson County
City of Jefferson

- Proposed design speed mainline: 35 mph
- Proposed maximum grade mainline: 7% Maximum grade allowable: 7%
- Proposed maximum grade side street: N/A Maximum grade allowable: 7%
- Proposed maximum grade driveway: 10%, but it may be steeper where existing conditions do not permit grades of 10% or flatter.
- Proposed minimum radius of curve: 900 ft.
Minimum radius of curve allowable: 340 ft.
- Right-of-Way
 - Width: Varies.
 - Easements: Temporary (X), Permanent (X), Utility (), Other ().
 - Type of access control: Full (), Partial (), By Permit (X), Other ().
 - Number of parcels: 7 Number of displacements: 0
 - Business: _____
 - Residences: _____
 - Mobile homes: _____
 - Other: _____
- Structures:
 - Bridges: None
 - Retaining walls: None
- Major intersections and interchanges: Beginning of project is at intersection of Galilee Church Road and Martin Luther King Jr. Drive
- Traffic control during construction: Local traffic will be maintained with no detours.
- Design Exceptions to controlling criteria anticipated:

	UNDETERMINED	YES	NO
HORIZONTAL ALIGNMENT:	()	()	(X)
ROADWAY WIDTH:	()	()	(X)
SHOULDER WIDTH:	()	()	(X)
VERTICAL GRADES:	()	()	(X)
CROSS SLOPES:	()	()	(X)
STOPPING SIGHT DISTANCE:	()	()	(X)
SUPERELEVATION RATES:	()	()	(X)
HORIZONTAL CLEARANCE:	()	()	(X)
SPEED DESIGN:	()	()	(X)
VERTICAL CLEARANCE:	()	()	(X)
BRIDGE WIDTH:	()	()	(X)
BRIDGE STRUCTURAL CAPACITY:	()	()	(X)

- Design Variances: None
- Environmental concerns: A Section 404 nationwide permit is anticipated to be required. Per the Historic Resources Survey Report with concurrence from the Georgia State Historic Preservation Officer (SHPO), there is a Finding of No Historic Properties Affected for this project.
- Level of environmental analysis: Categorical Exclusion. Time savings procedures were discussed and deemed appropriate due to the project PDP classification and level of environmental analysis.

- Known utility involvements: Communications, Power, Gas

VE Study Required **Yes()** **No(X)**

Project responsibilities:

- Design : City of Jefferson / Development Planning & Engineering, Inc. (DPE)
- Environmental Permitting : City of Jefferson / Edwards-Pitman Environmental, Inc.
- Right of Way Acquisition : City of Jefferson / Jackson County / BM&K
- Relocation of Utilities : City of Jefferson
- Letting to contract : City of Jefferson
- Supervision of construction : City of Jefferson

Coordination

- Project kick-off meeting date: December 4, 2008
- Initial Concept Team Meeting: June 5, 2009
- Public Information Open House: August 18, 2009

Scheduling – Responsible Parties’ Estimate

- Time to complete the environmental process: 9-12 Months.
- Time to complete preliminary construction plans: 4 Months.
- Time to complete right-of-way plans: 2 Months.
- Time to complete the Section 404 Nationwide Permit: 6 Months.
- Time to complete final construction plans: 4 Months.
- Time to complete to purchase right-of-way: 6-8 Months.

Alternatives considered:

Alternative #1, which is the preferred alternative, begins approximately 350 ft. east of the intersection of Galilee Church Road and US 129 (a.k.a. Jefferson Bypass). It then runs north parallel to a property line, which is approximately 200 ft. east of the existing dirt road. Then the alignment runs along the existing Martin Luther King Jr. Drive dirt road for approximately 700 ft. to the end of the project at the intersection of Martin Luther King Jr. Drive and Martin Luther King Avenue. Also, Galilee Church Road is to be improved to provide an eastbound left turn lane at the intersection with Martin Luther King Jr. Drive and provide a westbound right turn lane at the intersection with US 129 (Jefferson Bypass). The design of this project is to follow the 2004 AASHTO Manual : A Policy on Geometric Design of Highways and Streets (2004 AASHTO Green Book). This alternative has an estimated length of 0.5 miles and will cross an existing creek that will require a Section 404 permit. This alternative meets the need of providing a suitable access to the Central Jackson Industrial Park and the intended purpose of promoting the creation of commercial and industrial development in the area.

Alternative #2 begins approximately 350 ft. east of the intersection of Galilee Church Road and US 129 (a.k.a. Jefferson Bypass) and runs north close to the existing Martin Luther King Jr. Drive dirt road alignment to the intersection of Martin Luther King Jr. Drive and Martin Luther King Avenue.

Also, Galilee Church Road is to be improved to provide an eastbound left turn lane at the intersection with Martin Luther King Jr. Drive and provide a westbound right turn lane at the intersection with US 129 (Jefferson Bypass). This alternative will impact the existing stream that runs parallel to the existing Martin Luther King Jr. Drive. It will also impact the 25' stream buffers of the parallel stream and will cross an existing creek requiring a Section 404 permit. Also, this alternative will split a parcel resulting in two parcels with areas that may not be feasible for commercial or industrial development. Therefore, this may not be a viable alternative since it will reduce the number of parcels feasible for the intended purpose of commercial and industrial development.

Alternative #3 is the no-build alternative. This alternative is not feasible since the current Martin Luther King Jr. Drive is a dirt road that does not meet the 2004 AASHTO Green Book requirements for a speed design of 35 mph and it is not suitable for truck traffic. Therefore, this alternative will not serve the intended purpose of providing a viable access to the industrial park.

Alternative #4 is the roundabout alternative at the intersection of Martin Luther King Jr. Drive and Galilee Church Road with the proposed reconstruction of Martin Luther King Jr. Drive from Galilee Church Road to Martin Luther King Avenue. The Georgia Department of Transportation (GDOT) Roundabout Analysis Tool was used to analyze the feasibility of a roundabout at the intersection of Galilee Church Road and Martin Luther King Jr. Drive. The results of this analysis are included in this report. The roundabout is not feasible at this location for the following findings from the GDOT Roundabout Analysis Tool.

- AM peak hour period does not warrant a roundabout because there is greater than 80% of traffic on the main line (Galilee Church Road).
- The PM peak hour Level of Service for the roundabout is projected to be an A, and the Level of Service for the recommended improvements without the roundabout is also projected to be an A.
- PM 95% queue lengths are not improved by installing the roundabout.

Attachments:

1. Cost Estimates:
 - a. Construction including E&C
 - b. Right-of-Way
 - c. Utilities.
2. Preliminary right of way cost estimate.
3. Project alternates map.
4. Typical sections.
5. Minutes of project kick-off meeting.
6. Minutes of initial concept team meeting.
7. Public Information Open House Synopsis
8. GDOT Roundabout Analysis Tool report
9. Notice of Location and Design Approval

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Project Number CSAPD-0008-00(565)
P. I. Number 0008565
Jackson County
City of Jefferson



DEVELOPMENT PLANNING AND ENGINEERING, INC.

CONCEPTUAL PLANS OPINION OF CONSTRUCTION COSTS
MARTIN LUTHER KING JR. DRIVE
2,750 L.F. TWO-LANE PAVED ROADWAY
September 3, 2009
CITY OF JEFFERSON, GEORGIA

ROADWAY ITEMS						
Item Number	Item Description	Units	Quantity	Unit Price	Cost	
150-1000	TR AFFIC CONTROL	LS	LS	\$25,000.00	\$	35,000.00
201-1500	CLEARING & GRUBBING	LS	LS	\$100,000.00	\$	100,000.00
210-0100	GRADING COMPLETE	LS	LS	\$135,000.00	\$	135,000.00
210-0250	UNDER CUT EXCAVATION (PER SPECIFICATION 210.5C)	CY	200	\$10.00	\$	2,000.00
310-1101	GRADED AGGREGATE BASE COURSE, INCL. MAT'L	TN	5000	\$30.00	\$	150,000.00
402-1812	RECYCLED ASPH CONC LEVELING, INCL. BITUM. MAT'L & H LIME	TN	100	\$90.00	\$	9,000.00
402-3121	RECY ASPH CONC 25 MM SUPERPAVE, GP 1 OR 2, INCL. BIT. MAT'L & H LIME	TN	1800	\$90.00	\$	162,000.00
402-3131	RECY ASPH CONC 9.5 MM SUPERPAVE, GP 2 ONLY, INCL. BIT. MAT'L & H LIME	TN	1100	\$90.00	\$	99,000.00
413-1000	BITUMINOUS TACK COAT	GAL	1600	\$3.00	\$	4,800.00
432-5010	MILL ASPH CONC PAVT, VARIABLE DEPTH	SY	400	\$10.00	\$	4,000.00
641-1200	GUARDRAIL, TP W	LF	800	\$20.00	\$	16,000.00
641-5001	GUARDRAIL ANCHORAGE TP 1	EA	2	\$900.00	\$	1,800.00
641-5012	GUARDRAIL ANCHORAGE TP 12	EA	2	\$2,400.00	\$	4,800.00
Section Sub Total:					\$	723,200.00
DRAINAGE ITEMS						
Item Number	Item Description	Units	Quantity	Unit Price	Cost	
207-0203	FOUNDATION BACKFILL MATERIAL, TP II	CY	100	\$5.00	\$	6,000.00
550-1180	STORM DRAIN PIPE, 18 IN, H 1-10 FT	LF	600	\$50.00	\$	30,000.00
960-0550	PRECAST THREE SIDED CULVERT, SINGLE BARREL	LS	LS	\$230,000.00	\$	230,000.00
550-4218	FLARED END SECTION, 18 IN, STORM DRAIN	EA	18	\$700.00	\$	12,600.00
573-2006	UNDER PIPE INCL DRAINAGE AGGR, 6 IN	LF	500	\$20.00	\$	10,000.00
603-2181	STN DUMPED RIP RAP, TP 3, 18 IN	SY	200	\$65.00	\$	13,000.00
603-7000	PLASTIC FILTER FABRIC	SY	200	\$7.00	\$	1,400.00
Section Sub Total:					\$	303,000.00
SIGNING AND MARKING ITEMS						
Item Number	Item Description	Units	Quantity	Unit Price	Cost	
636-1020	HIGHWAY SIGNS, TP 1 MAT'L, REFL SHEETING, TP 3	SF	100	\$30.00	\$	3,000.00
636-2070	GALV STEEL POSTS, TP 7	LF	150	\$15.00	\$	2,250.00
653-0120	THERMOPLASTIC PAVT MARKING, ARROW, TP 2	EA	4	\$100.00	\$	400.00
653-1501	THERMOPLASTIC SOLID TRAFFIC STRIPE, 5 IN, WHITE	LF	7000	\$1.00	\$	7,000.00
653-1502	THERMOPLASTIC SOLID TRAFFIC STRIPE, 5 IN, YELLOW	LF	7000	\$1.00	\$	7,000.00
653-1704	THERMOPLASTIC SOLID TRAFFIC STRIPE, 24 IN, WHITE	LF	100	\$6.00	\$	600.00
653-2501	THERMOPLASTIC SKIP TRAFFIC STRIPE, 5 IN, WHITE	GLF	500	\$1.00	\$	500.00
653-6004	THERMOPLASTIC TRAFFIC STRIPING, WHITE	SY	200	\$5.00	\$	1,000.00
653-6006	THERMOPLASTIC TRAFFIC STRIPING, YELLOW	SY	300	\$5.00	\$	1,500.00
654-1001	RAISED PAVT MARKERS TP 1, TP 2, AND TP 3	EA	400	\$4.00	\$	1,600.00
Section Sub Total:					\$	24,850.00
EROSION CONTROL ITEMS						
Item Number	Item Description	Units	Quantity	Unit Price	Cost	
163-0232	TEMPORARY GRASSING	AC	4	\$1,000.00	\$	4,000.00
163-0240	MULCH	TN	10	\$165.18	\$	1,651.80
163-0300	CONSTRUCTION EXIT	EA	2	\$2,500.00	\$	5,000.00
163-0550	CONSTRUCT AND REMOVE INLET SEDIMENT TRAP	EA	10	\$280.29	\$	2,802.90
165-0030	MAINTENANCE OF TEMPORARY SILT FENCE, TP C	LF	1500	\$1.70	\$	2,550.00
165-0105	MAINTENANCE OF INLET SEDIMENT TRAP	EA	10	\$96.20	\$	962.00
167-1000	WATER QUALITY MONITORING AND SAMPLING	EA	2	\$1,291.85	\$	2,583.70
167-1500	WATER QUALITY INSPECTIONS	MO	12	\$980.37	\$	11,764.44
171-0030	TEMPORARY SILT FENCE, TYPE C	LF	3000	\$3.89	\$	11,670.00
700-6909	PERMANENT GRASSING	AC	4	\$1,050.40	\$	4,201.60
716-2000	EROSION CONTROL MATS, SLOPES	SY	5000	\$3.00	\$	15,000.00
Section Sub Total:					\$	62,186.44
SUB-TOTAL ROADWAY CONSTRUCTION:					\$	1,113,236.44
UTILITY RELOCATION ITEMS						
Item Number	Item Description	Units	Quantity	Unit Price	Cost	
	UTILITY RELOCATION	LS	LS	\$30,000.00	\$	30,000.00
Section Sub Total:					\$	30,000.00
SUB-TOTAL UTILITY RELOCATION:					\$	30,000.00
RIGHT OF WAY ACQUISITION ITEMS						
Item Number	Item Description	Units	Quantity	Unit Price	Cost	
	RIGHT OF WAY COST ESTIMATE (Refer to the Approved GDOT Preliminary Right of Way Cost Estimate Form dated July 14, 2009)	LS	LS	\$580,000.00	\$	580,000.00
Section Sub Total:					\$	580,000.00
SUB-TOTAL RIGHT-OF-WAY ACQUISITION:					\$	580,000.00
SUB-TOTAL UTILITY RELOCATION:					\$	30,000.00
SUB-TOTAL ENGINEERING COSTS (FEDERAL REVIEW):					\$	123,750.00
SUB-TOTAL NEPA REPORT:					\$	35,000.00
SUB-TOTAL ENGINEERING AND CONSTRUCTION:					\$	1,881,986.44
Contingency:					\$	222,647.29
TOTAL ESTIMATED COSTS:					\$	2,104,633.73

Preliminary Right of Way Cost Estimate

Date: 07/14/09
 Project: CSAPD - 0008 - 00(565) Jackson County
 Required R/W: 4 ACRES
 Project Termini: From Galilee Church Road to Martin Luther King Avenue
 Project Description: Reconstruction of existing dirt road (MLK Jr Drive) to a new 2-lane paved road to provide access to Central Jackson Industrial Park.

P.I. Number: 0008565
 No. Parcels: 7

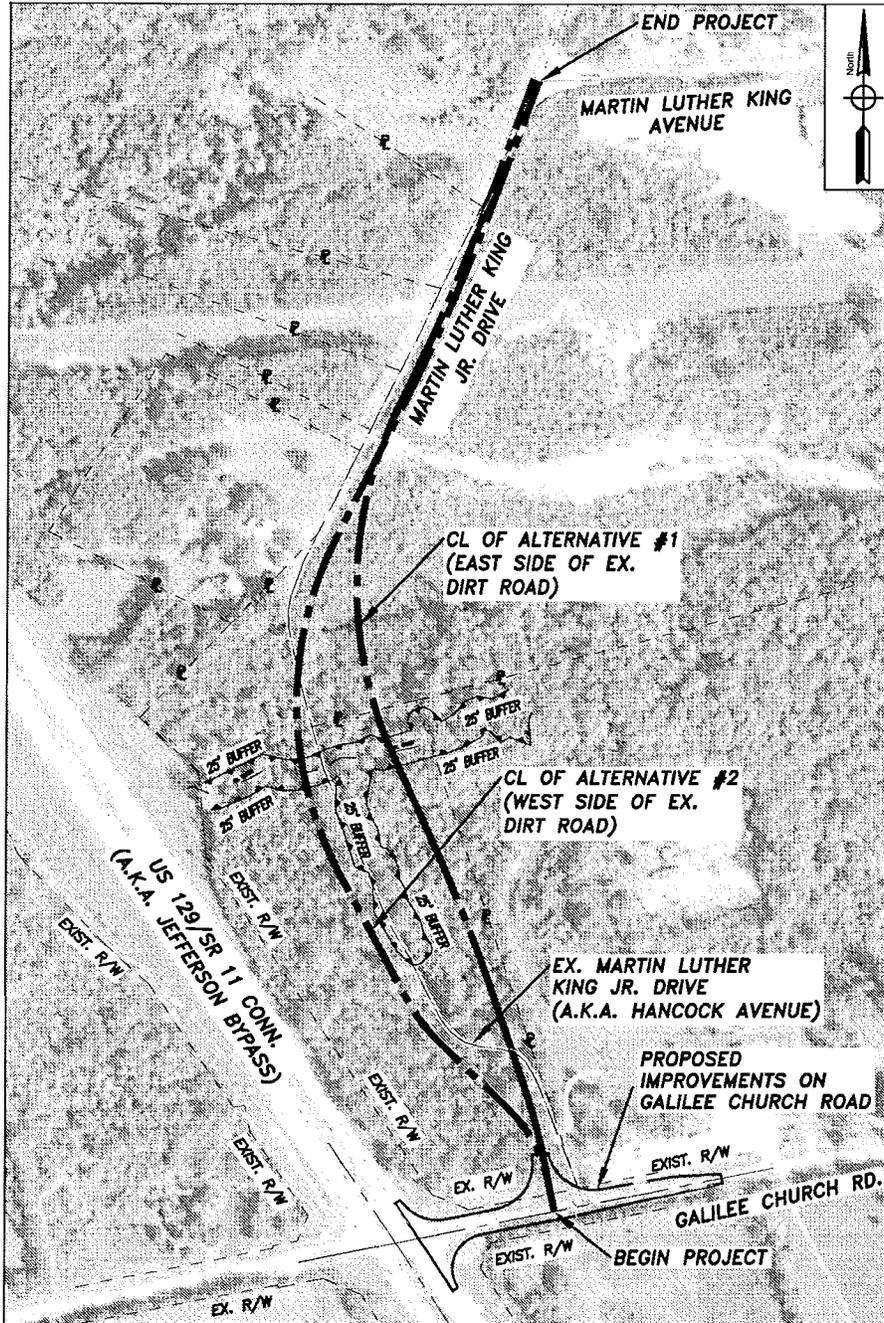
Land:			
Commercial			
	0.639 AC x \$100,000/AC =	\$63,900	
Industrial			
	3.102 AC x \$50,000/AC =	\$155,100	
Residential			
	0.262 AC x \$15,000/AC =	\$3,930	
TOTAL			<u>\$223,000</u>
Improvements: None (Land Only)			
Relocation:			
Commercial @ \$25,000/parcel	=	\$0	
Residential @ \$40,000/parcel	=	\$0	
TOTAL			\$0
Damages:			
Proximity -		\$0	
Consequential - (Parcel 3)		\$11,000	
Cost to Cure -		\$0	
TOTAL			<u>\$11,000</u>
SUB-TOTAL:			<u>\$234,000</u>

Net Cost		\$234,000
Scheduling Contingency 55 %		\$128,700
Adm/Court Cost 60 %		\$217,620
TOTAL		\$580,320

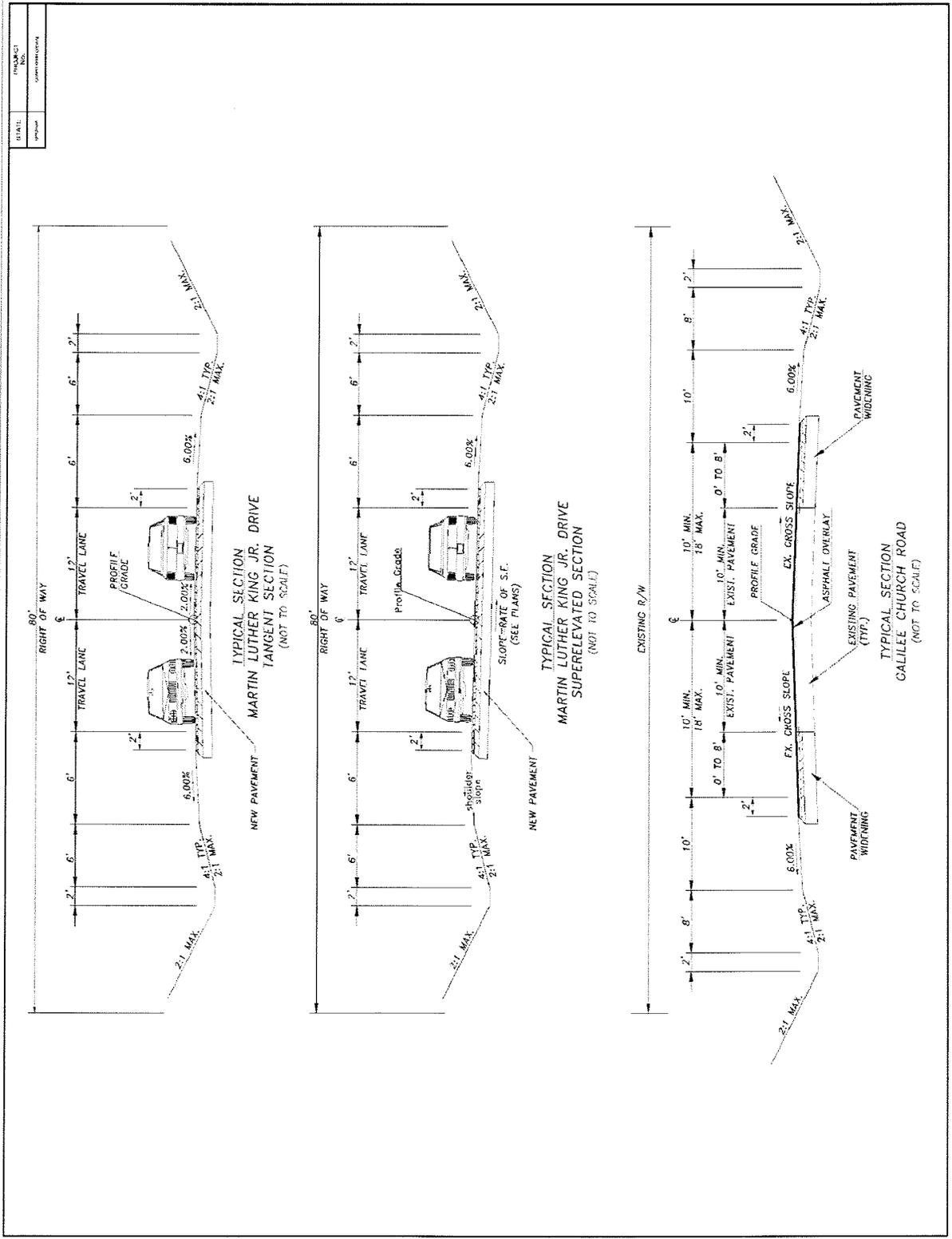
Total Cost **RD** **\$580,000**

Prepared By: *Milomir* CG#3213
 Reviewed / Approved: *Howard P. Copeland*
 Howard P. Copeland
 R/W Administrator

Note: Accuracy of estimate is the sole responsibility of the Preparer.
 Note: The Market Appreciation (40%) is not included in this Preliminary Cost Estimate.



**PROJECT ALTERNATES MAP
(N.T.S.)**





MEETING MINUTES

Project: Jackson County Industrial Park- Local Access Road GDOT P.I. No. 0008565 CSAPD-008-00(565) City of Jefferson, Georgia	Job No.: 06-011	Date: 12/04/08
--	------------------------	-----------------------

To : Mr. Jeff Killip City of Jefferson, Georgia

From: James C. Garrison, III, P.E. Development Planning and Engineering, Inc. (DPE)

Subject: *Project Kick-off Meeting*

Attending: Mr. Jeff Killip City of Jefferson
Mr. Neil Kantner Georgia Department of Transportation (GDOT)
Ms. Kim Coley GDOT Environmental
Ms. Kim Byers GDOT Right-of-Way
Ms. Tyrhonda Edwards GDOT Planning
Ms. Teressa Walcott GDOT
Mr. Colin Houppermans GDOT
James C. Garrison, III, P.E. DPE

A Kick-Off Meeting was held on Thursday, December 4, 2008 at 9:30 a.m. at the Jefferson City Hall for the above-referenced project. The following items of significance were discussed:

1. Ms. Walcott will be the day-to-day Project Manager for GDOT.
2. This project is classified as Full FHWA Oversight.
3. Ms. Latoya Johnson with the Federal Highway Administration (FHWA) will be the engineer responsible for review of the design documents. Ms. Kelly Wade, FHWA, will be the person responsible for review of the Environmental Document.
4. \$600,000 in Federal Aid is allocated for construction. No Federal Funds are allocated for Preliminary Engineering.
5. Ms. Coley will review with the Environmental consultant, Edwards-Pitman Environmental, Inc. to determine whether a Categorical Exclusion (CE) or Environmental Assessment (EA) will be required for this project.
6. Mr. Kantner stated that use of AutoCAD design software is acceptable for this project.
7. Mr. James Thompson with the Department of Community Affairs (DCA) should be updated with the proposed funding year. It is anticipated that this will be in 2010. The City of Jefferson will coordinate this with GDOT and Mr. Thompson.
8. GDOT expects approximately 1 month to obtain final signatures for the Framework Agreement upon submission from the City of Jefferson.

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9. A geotechnical report will be required for soils analysis and pavement design. If an open bottom structure is utilized for the proposed creek crossing, a Bridge Foundation Investigation (BFI) will be required.
10. A traffic study will be required for the project. Mr. Kantner stated the study could possibly be in memorandum format.
11. DPE should discuss all conceptual alternates considered for this project. Not every concept considered needs a layout but there should be detailed discussion in the Concept Report submitted for this project.
12. The Framework Agreement was briefly reviewed for content. The City of Jefferson should provide review comments to GDOT as soon as possible.
13. DPE shall prepare a design schedule for this project. The schedule shall contain dates up to letting for construction.
14. The typical review periods are as follows: Categorical Exclusion - 6 to 9 months; Environmental Assessment - 12 to 15 months; Review and Schedule Public Information Open House – 30 days; Construction Plan Review(s) – 45 days each submittal; and PS&E Package – 60 days. DPE will incorporate these durations into the project schedule.

This memorandum represents our understanding of this meeting. Should there be any corrections, please notify us immediately.

Distribution:

Mr. Jeff Killip	jkillip@cityofjeffersonga.com
Mr. Neil Kantner	nkantner@dot.ga.gov
Ms. Kim Coley	kcoley@dot.ga.gov
Ms. Kim Byers	kbyers@dot.ga.gov
Ms. Tyrhonda Edwards	tyedwards@dot.ga.gov
Ms. Teresa Walcott	twalcott@dot.ga.gov
Mr. Colin Houppermans	chouppermans@dot.ga.gov
Mr. James C. Garrison, III, P.E.	jgarrison@dpengr.com
Mr. Jerry Hood City Engineer	jhood@eminc.biz

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MEETING MINUTES

Project: Jackson County Industrial Park- Local Access Road Georgia Department of Transportation (GDOT) P.I. No. 0008565 CSAPD-008-00(565) City of Jefferson, Georgia	Job No.: 06-011a	Date: 06/05/09
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To : Mr. Jeff Killip City of Jefferson, Georgia
From: Edgardo E. Aponte, P.E. Development Planning & Engineering, Inc. (DPE)
Subject: *Concept Team Meeting*

Attending:

Mr. John Ward	City of Jefferson
Mr. Jeff Killip	City of Jefferson
Mr. Darrell Hampton	Jackson County
Mr. Don Clerici	BM&K/Jackson County–Right of Way Acquisition
Ms. Mickie McJunkin	BM&K/Jackson County–Right of Way Acquisition
Ms. Latoya Johnson	Federal Highway Administration (FHWA)
Ms. Kelly Wade	FHWA
Mr. Neil Kantner	GDOT District 1
Ms. Teressa Walcott	GDOT District 1
Ms. Kim Coley	GDOT District 1 – Environmental
Ms. Kim Byers	GDOT Right-of-Way
Mr. Brent Cook	GDOT District 1 – Traffic Operations
Mr. Michael D. Johnson	GDOT Traffic Operations
Mr. Nathaniel O’Kelley	GDOT Utilities
Mr. Kevin Dewitt	GDOT District 1
Ms. Kesha Wynn	GDOT District 1
Mr. Jimmy Roberts	Jackson EMC
Mr. Kris Stephens	Georgia Power Company
Mr. James C. Garrison, III, P.E.	DPE
Mr. Edgardo E. Aponte, P.E.	DPE
Mr. Russ Danser	Edwards-Pitman Environmental, Inc.
Mr. Paul Bennett	Southeastern Engineering, Inc. (SEI)

The initial and final concept team meeting was held on Friday, June 5, 2009 at 9:00 a.m. at the GDOT District 1 Office in Gainesville, Georgia for the above-referenced project. The following items of significance were discussed:

1. Everyone agreed to consider this meeting as the initial and final concept team meeting pending on the outcome of the Public Information Open House (PIOH).

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MEETING MINUTES

2. The concept report is to be revised to address the following comments.
 - Cover Page: Move the text that reads "The concept as presented herein and submitted for approval is consistent ..." located at the bottom of the Cover Page to the middle of the Cover Page below the text that reads "(See following page for Vicinity Map)".
 - Cover Page: Revise the text that reads "State Traffic Safety and Design Engineer" to "State Traffic Engineer".
 - Page 2: Rotate the vicinity map from a landscape view to a portrait view.
 - Page 3: Expand the description for the reasoning for the Logical Termini. Also, under the Logical Termini section mention that there are proposed improvements on Galilee Church Road.
 - Page 3: Add the Level of Service for each road.
 - Page 3: Delete the sentence that reads "Several alternatives were considered..." under the Project Description section at the bottom of the page.
 - Page 3: Add description of proposed improvements on Galilee Church Road on the Project Description section at the bottom of the page.
 - Page 4: Revise the Traffic (AADT) section to show the AADT for the initial design year where road will be open to traffic, which is 2011, and the final design year of 2031.
 - Page 5: Add the anticipated meetings included in the GDOT Plan Development Process to the list included under the Coordination Section at the bottom of the page.
 - Page 6: Add the anticipated stream buffer impacts from Alternative #2 under the Alternatives Considered section.
 - Page 6: Add description of the proposed improvements on Galilee Church Road on the Alternatives Considered section.
 - Page 9: Revise the title name from "Vicinity Map" to "Alternatives Map". Also, add the proposed improvements on Galilee Church Road to this map.
 - Page 10: Include typical section for proposed improvements on Galilee Church Road.

3. Per discussion between Ms. Kelly Wade, Ms. Kim Coley, and Mr. Russ Danser, the level of National Environmental Policy Act (NEPA) environmental analysis recommended for this project is a Categorical Exclusion (CE). This determination is based on the scope/purpose of the action as well as the minimal impacts anticipated for this project. On the existing condition, Martin Luther King Jr. Drive (MLK Jr. Drive) is a dirt road that does not meet the AASHTO requirements for a speed design of 35 mph. It is for this reason that a new alignment alternative is being presented for the proposed project. However, measures are being taken in the project design to minimize impacts to the existing streams and their corresponding stream buffers. These measures include realignment of MLK Jr. Drive to minimize impacts to the stream buffers as well as the installation of a bottomless culvert at the stream crossing. Ms. Kelly Wade requested that a PIOH be held to best gauge any potential for public project controversy.

4. Ms. Teresa Walcott in coordination with Ms. Kim Coley and Mr. Edgardo Aponte will schedule a Public Information Open House (PIOH) to gather input/comments from the

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MEETING MINUTES

public. The concept report will be finalized after incorporating the PIOH comments to the concept report.

5. Mr. Brent Cook requested to determine if the storage length of the existing southbound left turn lane at the intersection with SR. 129 (a.k.a. Jefferson Bypass) and Galilee Church Road provides the necessary length for the proposed industrial park improvements on Martin Luther King Jr. Drive. Also, he requested to review the existing Type "A" median at this intersection and provide recommendations, if any, to GDOT and the City of Jefferson for review.
6. The wheelpath template for a trailer truck WB-50 design vehicle will be used to determine if the proposed 2' wide paved shoulder needs to be widened at the inside of the proposed horizontal curves along Martin Luther King Jr. Drive.
7. The existing and proposed utilities are to be coordinated with Mr. Nathaniel O'Kelley.

This memorandum represents our understanding of this meeting. Should there be any corrections, please notify us immediately.

Distribution:

Mr. John Ward	jward@cityofjeffersonga.com
Mr. Jeff Killip	jkillip@cityofjeffersonga.com
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Mr. Edgardo E. Aponte, P.E.	eaponte@dpengr.com
Mr. Russ Danser	rdanser@edwards-pitman.com
Mr. Paul Bennett	pbennett@seengineering.com
Mr. Jerry Hood, City Engineer	jhood@eminc.biz
File	

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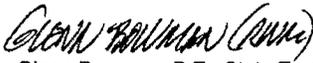
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DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE: P. I. No. 0008565 OFFICE: Environmental/Location
DATE: August 19, 2009
FROM:  Glenn Bowman, P.E., State Environmental/Location Engineer
TO: Distribution Below
SUBJECT: PUBLIC INFORMATION OPEN HOUSE SYNOPSIS
PROJECT No. & COUNTY: CSAPD-0008-00(565), Jackson County
PROJECT DESCRIPTION: This project proposes to reconstruct the existing dirt road along Martin Luther King Jr. Drive from Galilee Church Road to Martin Luther King Avenue to a two-lane paved road. The project also includes the improvements on Galilee Church Road to add an eastbound left-turn lane at the intersection with Martin Luther King Jr. Drive and a westbound right-turn lane at the intersection with US 129 (a.k.a. Jefferson Bypass).
DATE: August 18, 2009
NUMBER IN ATTENDANCE: 19
FOR: 8
CONDITIONAL: 0
UNCOMMITTED: 2 (Requested notification when more detailed plans are available)
AGAINST: 0
OFFICIALS IN ATTENDANCE: Betty Jackson, Permit Clerk (City of Jefferson); Jim Joiner, Mayor (City of Jefferson); Jeff Killip, Public Works Director (City of Jefferson); John Ward, City Manager (City of Jefferson), Jerry Weitz, City Planner (City of Jefferson), Fred Wilson, City Employee (City of Jefferson)
MEDIA IN ATTENDANCE: Senita McRae, WDUN News
ADDITIONAL COMMENTS: None
PREPARED BY: Russ Danser (Edwards-Pitman Environmental) for Kim Coley
TELEPHONE No.: (770) 532-5582
cc: Genetha Rice-Singleton.
Gerald M. Ross, P.E.
Russell McMurry
Teressa Walcott
Neil Kantner, P.E.
Kim Coley

Project Concept Report page 18
Project Number CSAPD-0008-00(565)
P. I. Number 0008565
Jackson County
City of Jefferson

Roundabout Analysis Tool
 Single Lane

5/4/2009
 Version 1.0

General & Site Information	
Analyst:	Paul Bennett
Agency/Company:	SEI Engineering
Date:	5/4/2009
Project Name or PI#:	124-09-024
Intersection:	Ililee Church Road at MLK Jr. Dr
Analysis Time Period:	PM
Year:	2031
County/District:	Jackson / District One

Volumes		Entry Legs (FROM)							
		N (1)	NE (2)	E (3)	SE (4)	S (5)	SW (6)	W (7)	NW (8)
Exit Legs (TO)	N (1), vph			3				24	
	NE (2), vph								
	E (3), vph	11						55	
	SE (4), vph								
	S (5), vph								
	SW (6), vph								
	W (7), vph	86		120					
	NW (8), vph								
Output	Total Vehicles	97	0	123	0	0	0	79	0

Volume Characteristics	N	NE	E	SE	S	SW	W	NW
% Cars	92%	100%	92%	100%	100%	100%	92%	100%
% SU/ Bus	4%	0%	4%	0%	0%	0%	4%	0%
% Trucks	4%	0%	4%	0%	0%	0%	4%	0%
% Bicycle	0%	0%	0%	0%	0%	0%	0%	0%
PHF	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
F _{HV}	0.943	1.000	0.943	1.000	1.000	1.000	0.943	1.000

Entry/Conflicting Flows	N	NE	E	SE	S	SW	W	NW
Flow to Leg # N (1), pcu/h	0	0	3	0	0	0	28	0
NE (2), pcu/h	0	0	0	0	0	0	0	0
E (3), pcu/h	13	0	0	0	0	0	63	0
SE (4), pcu/h	0	0	0	0	0	0	0	0
S (5), pcu/h	0	0	0	0	0	0	0	0
SW (6), pcu/h	0	0	0	0	0	0	0	0
W (7), pcu/h	99	0	138	0	0	0	0	0
NW (8), pcu/h	0	0	0	0	0	0	0	0
Entry flow, pcu/h	112	0	142	0	0	0	91	0
Conflicting flow, pcu/h	138	0	28	0	0	0	13	0

Roundabout Type	Urban Compact=1	Standard Single Lane =2
Enter type here...		2

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Project Number CSAPD-0008-00(565)
P. I. Number 0008565
Jackson County
City of Jefferson

Roundabout Analysis Tool
 Single Lane

5/4/2009
 Version 1.0

Results								
NCHRP-572 Model	N	NE	E	SE	S	SW	W	NW
Entry Capacity, pcu/h	984	NA	1099	NA	NA	NA	1116	NA
Leg v/c ratio	0.11		0.13				0.08	
Control Delay, s/pcu	4.1		3.8				3.5	
LOS	A		A				A	
LOS (signalized)	A		A				A	
95th % Queue (veh)	0		0				0	
95th Percentile Queue (ft)	10		12				7	
FHWA 2000 Model	N	NE	E	SE	S	SW	W	NW
Entry Capacity, pcu/h	1137	NA	1197	NA	NA	NA	1205	NA
Leg v/c ratio	0.10		0.12				0.08	
Delay (s/veh)	4		3				3	
LOS	A		A				A	
95th % Queue (veh)	0		0				0	
95th % Queue (ft)	9		11				6	

Notes:

Default Values:

Equivalency Factors:

Car 1
 Single-unit truck or bus 1.5
 Truck with trailer 2
 Bicycle or motorcycle 0.5

Default Car Length (ft) 25

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Project Number CSAPD-0008-00(565)
P. I. Number 0008565
Jackson County
City of Jefferson

NOTICE OF LOCATION AND DESIGN APPROVAL

CSAPD-0008-00(565), JACKSON COUNTY **P. I. No. 0008565**

Notice is hereby given in compliance with Georgia Code 22-2-109 that the Georgia Department of Transportation has approved the Location and Design of this project.

The date of location approval is March 12, 2010.

Project CSAPD-0008-00(565) is located entirely within Jackson County and Georgia Military District 245. This project proposes to reconstruct the existing dirt road on Martin Luther King Jr. Drive to a new two-lane paved rural road from Galilee Church Road to Martin Luther King Avenue to provide access to the Central Jackson Industrial Park in the City of Jefferson in Jackson County. This includes improvements on Galilee Church Road by adding an eastbound left turn lane at the intersection with Martin Luther King Jr. Drive and a westbound right turn lane at the intersection with US 129 (a.k.a. Jefferson Bypass). The estimated length of this project is 0.5 miles. The proposed typical section consists of a rural section with two 12-foot lanes and 6-foot shoulders.

Drawings or maps or plats of the proposed project, as approved, are on file and are available for public inspection at the Georgia Department of Transportation:

Teresa Walcott
teressa.walcott@dot.state.ga.us
2505 Athens Hwy SE
Gainesville, GA 30503
770-718-5005

Any interested party may obtain a copy of the drawings or maps or plats or portions thereof by paying a nominal fee and requesting in writing to:

Neil Kantner
District 1, Design Office
neil.kantner@dot.ga.gov
P.O. Box 1057
Gainesville, GA 30503-1057
770-532-5522

Any written request or communication in reference to this project or notice SHOULD include the Project and P. I. Numbers as noted at the top of this notice.