# DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA REVISED PROJECT CONCEPT REPORT

County: State Route Number:	Clarke SR 10
State Route Number:	SR 10
rs, lane widths, shoulde bughout the project corri	r widths, driveway access, dor.
	8-28-2015
	DATE
	DATE
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ed)	DATE
red for roundabout)	DATE
jects with bridges)	DATE
	red for roundabout)

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

State Transportation Planning Administrator (recommendation required)

DATE

### PLANNING, APPROVED CONCEPT, & BACKGROUND DATA

**Project Justification Statement:** The project was identified by and is a component of the Madison-Athens-Clarke County-Oconee Regional Transportation Study (MACORTS) adopted in September 1997. This interchange is significant regionally in that it provides access to and between the SR 10 Loop which is a perimeter route around the city of Athens, from US 78/SR 10 (Atlanta Hwy), and provides access to the Georgia Square Mall located west of the interchange. It also serves a wide variety of other shopping, eating, and employment opportunities in the immediate vicinity.

Traffic projections estimate that volumes on US 78/SR 10 (Atlanta Hwy) will increase by approximately 30% or 13,200 vehicles per day in the next twenty years. The project proposes 0.90 miles of widening and improvements to the US 78/SR 10 (Atlanta Hwy) in the interchange area. The US 78/SR 10 (Atlanta Hwy) over the SR 10 Loop bridges are to be replaced due cracking throughout the structures and undersized edge beams. The new loop ramp, realigned ramps, auxiliary lane and additional lanes provided by this project would facilitate the flow of traffic to and from SR 10 Loop to Atlanta Highway as well as the through traffic on Atlanta Highway by providing additional capacity and eliminating many conflicting turning movements. The relocated Jennings Mill Road provided by this project would improve traffic safety and will facilitate the flow of traffic to and from Jennings Mill Road and a large shopping center to Atlanta Highway by adding a traffic signal and increasing the distance between the intersection of the northbound exit ramp and the Jennings Mill Road intersection at Atlanta Highway. Widening and improvements to Huntington Road will facilitate the flow of traffic to the fl

The primary needs of the project are to increased mobility and improved safety and to enhance economic development within the interchange area.

#### Description of the approved concept:

The approved concept consists of improvements to the SR 10 Loop/Atlanta Highway (SR 10/US 78) interchange in Athens, Georgia, and the widening of Atlanta Highway in the interchange vicinity for a total project length of .82 mile.

SR 10 Loop is a four lane facility with a forty-foot depressed median and a 55 mph posted speed limit. Atlanta Highway (SR 10/US 78) consists of 4 to 6 lanes, urban shoulders and a variable width raised median and depressed median. The medians range from 8' to 40' wide. The posted speed limit on Atlanta Highway (SR 10/US 78) is 45 mph.

Huntington Road and Jennings Mill Road have posted speeds of 25 mph and 35 mph, respectively, with Huntington Road being 2 to 4 lanes with urban shoulder and a variable width raised median, and Jennings Mill Road being a 2 lane roadway with six foot rural shoulders.

Accident data within the limits of the project indicate a significant problem on Atlanta Highway. Continuous commercial development along Atlanta Highway corridor will increase traffic volumes to 78,250 vehicles per day (VPD) by the year 2031, from year 2011 counts of 56,150 VPD. SR 10 Loop will see an increase of nearly 14,500 VPD to 50,500 VPD by year 2031.

The approved concept proposes construction of a new loop ramp from Atlanta Highway westbound to SR 10 Loop southbound, realigning the existing loop ramp from Atlanta Highway eastbound to SR 10 Loop northbound, and widening Atlanta Highway by adding four lanes and lengthening several turn lanes. In addition, the project includes improvements to the Huntington Road and Atlanta Highway intersection and relocating the Jennings Mill Road intersection.

Atlanta Highway will be widened to an 8 lane urban facility with 8' to 40' raised median, 4' bike lanes, 5' sidewalks, 16' shoulders and left turn lanes added or modified at various locations. SR 10 Loop will remain four lanes with a 40' depressed median. Improvements to SR 10 Loop include adding a deceleration / storage lane to the southbound exit ramp, adding a southbound entrance loop ramp with an acceleration lane on SR 10 Loop, and realigning the northbound loop ramp and the acceleration lane on SR 10 Loop. Huntington Road will be widened to add left and right turn lanes in both directions with 5' sidewalks and 16' shoulders. Jennings Mill Road intersection with Atlanta Highway will be relocated approximately 300' east of its current location. Relocated Jennings Mill Road will consist of 2 lanes with curb and gutter, 5' sidewalks, and 16' shoulders. All lanes within the project are to be designed 12 ft wide.

DESIGN SPEEDS			
Atlanta Highway	45 mph		
Jennings Mill Road	35 mph		
Huntington Road	25 mph		
SR 10 Loop	55 mph		
SR 10 Loop - Entrance Loop Ramps	30 mph		
SR 10 Loop - Exit Ramps	45 mph		

Projected Traffic AADT as shown in the approved Concept Report:							
Federal Oversight:	Full Oversight	🔀 Exempt	State Funded	Other			
PDP Classification:	🔀 Major	Minor					

Atlanta Highway:	
Open Year (2011): 56.150	Design Year (2031): 78,250
SR 10 Loop:	
Open Year (2011): 36,000	Design Year (2031): 50,500

Revised Project Concept Report – Page 4 County: Clarke

Updated Traffic ADT: Atlanta Highway					
Open Year (2021): 49,375	Design Year (2041): 59,600				
Open Year (2021): 37,700	Design Year (2041): 46,000				
Functional Classification (Mainline): Urban Principal Arterial					

VE Study anticipated: No

Yes

Completed – Date: 8/10/2007

# **PROPOSED REVISIONS**

Approved Features:	Proposed Features:				
Typical Section (Atlanta Hwy):	Typical Section (Atlanta Hwy):				
• 12'-0" Lane Widths	• 11'-0" Lane Widths				
• 4'-0" Bike Lanes	No Bike lanes				
• 16'-0" Shoulders	• 8'-0" to 16'-0" Shoulders				
Typical Section (Huntington Road): • 16'-0" Shoulder	Typical Section (Huntington Road): • 10'-0" Shoulder				
Typical Section (Jennings Mill Road): • 16'-0" Shoulder	Typical Section (Jennings Mill Road): • 10'-0" Shoulder				
<ul> <li>Project Concept Layout:</li> <li>4 lanes in each direction through the interchange area</li> </ul>	<ul> <li>Project Concept Layout:</li> <li>3 lanes in each direction through the interchange area</li> </ul>				
Reason(s) for change:					

ROW is the highest cost item on this project. Reducing the widths and shoulder widths will result in significant cost savings (pavement bridge and ROW) and also reduce / minimize the amount of new ROW required to construct the project. The bike lane would not tie to any proposed bike routes designated by GDOT or Athens-Clarke County.

### ENVIRONMENTAL

### Air Quality:

Is the project located in a PM 2.5 Non-attainment area? Is the project located in an Ozone Non-attainment area?

🖂 No	🗌 Yes
🖂 No	🗌 Yes

A Noise Study will be required.

A UST survey will be required.

Yes

### Potential environmental impacts of proposed revision:

The reduced lane width and revised lane layout along Atlanta Highway and reduced shoulder widths along Huntington Road and Jennings Mill Road were done to reduce the project foot print and its impacts on the adjacent businesses. This will reduce the environmental impacts throughout the majority of the project corridor.

### Have proposed revisions been reviewed by environmental staff?

# 🔀 No

### Environmental responsibilities (Studies/Documents/Permits):

GDOT is responsible for all environmental studies for the proposed project.

### Environmental impacts by section:

**NEPA:** A reevaluation of the NEPA document will be required for the revisions listed in this report.

**Ecology:** Project areas should be screened for Ecology resources.

Archeology: Project areas should be screened for archeology resources.

History: Project areas should be screened for History resources.

**Air & Noise:** Air and noise modeling will need to be performed based on the revised project footprint resources.

Public Involvement: An additional PIOH may be required?

# **PROJECT COST & ADDITIONAL INFORMATION**

Updated Cost	Date of Estimate	
Base Construction Cost:	\$18,961,866.30	08-21-2015
5% Engineering and Inspection:	\$948,093.32	08-21-2015
5% Contingency	\$ 995,497.98	08-21-2015
Liquid AC Adjustment:	\$1,221,560.36	08-21-2015
Total Construction Cost:	\$22,127,017.96	08-21-2015
Right-of-Way:	\$13,064,224.00	06-08-2011
Utilities (reimbursable costs):	\$1,000,000.00	Assumed
Environmental Mitigation:	\$50,000.00	Assumed
TOTAL PROJECT COST:	\$36,241,241.96	

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

#### Comments: None

#### Attachments:

- 1. Location map
- 2. Revised Concept Layout
- 3. Roadway Typical Section
- 4. Cost Estimates
  - a. Construction including Engineering and Inspection and Contingencies
  - b. Completed Liquid AC Cost Adjustment forms
  - c. Right-of-Way (Not Included/From Precon. Status Report)
  - d. Utilities (Assumed/Not Included)
  - e. Environmental Mitigation (Assumed/Not Included)
- 5. Logical Termini Form (Not Included Pending completion by OES)
- 6. VE Study Implementation Letter
- 7. Traffic Diagrams
- 8. Traffic Study Synopsis and Summary Tables
- 9. Meeting Minutes
  - a. 2-19-2015 Meeting with GDOT District 1
  - b. 4-16-2015 Meeting with FHWA
  - c. 5-20-2015 Meeting with GDOT District 1 & Athens Clarke County
  - d. 7-1-2015 Meeting with GDOT Planning & Athens Clarke County
  - e. Additional Pertinent E-mail Chains

### **APPROVALS**

Concur:

**Director of Engineering** 

Approve:

Chief Engineer

Date









# DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA

# INTERDEPARTMENT CORRESPONDENCE

FILE	P.I. No.	122890		OFFICE	Program Delivery
PROJE	CT DESCR	IPTION			
SR 10 L JENNIN	OOP AT US	78/SR10(ATLANTA HWY) INTER D REALIGNMENT IN ATHENS	CHANGE; INCL	DATE	August 21, 2015
From:	Albert V. S	Shelby III, State Program Delivery En	ngineer		
То:	Lisa L. My	ers, State Project Review Engineer			
Subject	: REVISION	NS TO PROGRAMMED COSTS			
DROJE			MGMT LET	Г DATE	10/19/2018
PROJEC	JI MANAGI	ER Anthony Late	MGMT RO	W DATE	4/22/2011
<u>PROGE</u>	RAMMED C	COSTS (TPro W/OUT INFLATIO	<u>N)</u>	LAST	ESTIMATE UPDATE
CONST	RUCTION	\$ 18,961,866.30		DATE	11/15/2012
RIGHT	OF WAY	\$ 13,064,224.00		DATE	6/8/2011
UTILIT	IES	\$ 1,000,000.00		DATE	N/A
<u>REVIS</u>	ED COST E	<u>STIMATES</u>			
CONST	RUCTION*	\$ 22,127,017.96			
RIGHT	OF WAY	\$			
UTILIT	IES	\$ 1,000,000.00			
*Cost (	Contains	5 % Contingency			
REASO	ONS FOR CO	OST INCREASE AND CONTING	ENCY JUSTIFIC	ATION:	
Construe Clarke C	ction cost ha County.	ve been updated based on VE Chang	es, design changes	made in agre	eement with Athens-

# **CONTINGENCY SUMMARY**



# **REIMBURSABLE UTILTY COSTS**

UTILITY OWNER	REIMBURSABLE COST
Assumed Cost	\$ 1,000,000.00
TOTAL	\$ 1,000,000.00

#### **ATTACHMENTS:**

Liquid AC Adjustment Spreadsheet

PROJ. NO.	TOOPDDES1:	10124			]		CALL NO.		9/29/2009
P.I. NO.	0010739								
DATE	8/21/2015								
INDEX (TYPE)	DATE	INDEX		Link to Fuel and AC	Cindex:				
REG. UNLEADED	Aug-15	\$ 2.497		http://www.dot.ga	a.gov/doingbus	iness/N	Materials/Pages/as	phaltcementindex.as	<u>px</u>
DIESEL		\$ 2.725							_
LIQUID AC		\$ 470.00							
LIQUID AC ADJUSTMEN	NTS								
PA=[((APM-APL)/APL)]	xTMTxAPL								
Asphalt									
Price Adjustment (PA)							1208835.3	\$	1,208,835.30
Monthly Asphalt Cemer	nt Price month	n placed (APM)		Max. Cap	60%	\$	752.00		
Monthly Asphalt Cemer	nt Price month	n project let (AF	'L)			\$	470.00		
Total Monthly Ton	nage of as	phalt cemen	t (TMT)				4286.65		
ASPHALT	Tons	%AC	AC ton						
Leveling	43805	5.0%	2190.25						
12.5 OGFC	3415	5.0%	170.75						
12.5 mm	8662	5.0%	433.1						
9.5 mm SP	0	5.0%	0						
25 mm SP	18886	5.0%	944.3						
19 mm SP	10965	5.0%	548.25						
	85733		4286.65	—					
BITUMINOUS TACK CO	AT								
Price Adjustment (PA)						\$	12,725.06	\$	12,725.06
Monthly Asphalt Cemer	nt Price month	n placed (APM)		Max. Cap	60%	\$	752.00		
Monthly Asphalt Cemer	nt Price month	n project let (AP	'L)			\$	470.00		
Total Monthly Tonnage	of asphalt cer	ment (TMT)					45.12433029		
Bitum Tack									
Gals	gals/ton	tons							
10506	232.8234	45.1243303							
BITUMINOUS TACK CO	AT (surface tr	eatment)							
Price Adjustment (PA)							0	\$	-
Monthly Asphalt Cemer	nt Price month	placed (APM)		Max. Cap	60%	\$	752.00		
Monthly Asphalt Cemer	nt Price month	n project let (AF	'L)			\$	470.00		
Total Monthly Tonnage	of asphalt cer	ment (TMT)					0		
Bitum Tack	SY	Gals/SY	Gals	gals/ton	tons				
Single Surf. Trmt.		0.20	0	232.8234	0				
Double Surf.Trmt.		0.44	0	232.8234	0				
Triple Surf. Trmt		0.71	0	232.8234	0				
					0				

TOTAL LIQUID AC ADJUSTMENT

\$ 1,221,560.36

Description: NH000-0003-03(053) - CLARKE COUNTY

PI No.:

LINE		ITEM	UNITS	DESCRIPTION	QUANTITY	Ρ	RICE	٨N	IOUNT
	5	150-1000	LS	TRAFFIC CONTROL - 122890	1	\$	250,000.00	\$	250,000.00
	7	150-5010	EA	TRAF CTRL, PORTABLE IMPACT ATTN	7	\$	7,934.58	\$	55,542.06
	10	153-1300	EA	FIELD ENGINEERS OFFICE TP 3	1	\$	79,134.11	\$	79,134.11
	15	201-1500	LS	CLEARING & GRUBBING - 122890	1	\$	300,000.00	\$	300,000.00
	19	205-0001	CY	UNCLASS EXCAV	77131	\$	6.34	\$	489,010.54
	20	208-0100	CY	IN PLACE EMBANKMENT	47983	\$	5.84	\$	280,220.72
	25	318-3000	TN	AGGR SURF CRS	3500	\$	18.32	\$	64,120.00
	30	433-1100	SY	REF CONC APPR SL/INCL CURB	676	\$	169.40	\$	114,514.40
	35	441-0104	SY	CONC SIDEWALK, 4 IN	7618	\$	26.07	\$	198,601.26
	38	441-0301	EA	CONC SPILLWAY, TP 1	11	\$	1,670.43	\$	18,374.73
	40	441-0302	EA	CONC SPILLWAY, TP 2	1	\$	1,763.22	\$	1,763.22
	45	441-0740	SY	CONC MEDIAN, 4 IN	6638	\$	22.48	\$	149,222.24
	50	441-4020	SY	CONC VALLEY GUTTER, 6 IN	49	\$	38.34	\$	1,878.66
	55	441-6222	LF	CONC CURB & GUTTER/ 8"X30"TP2	19013	\$	12.81	\$	243,556.53
	56	441-6740	LF	CONC CURB & GUTTER/ 8"X30" TP7	1535	\$	13.89	\$	21,321.15
	60	456-2012	GLM	INTENT. RUMB. STRIPS - GRND-IN-PL (CONT)	2	\$	973.70	\$	1,947.40
	65	643-0010	LF	FIELD FENCE WOVEN WIRE	3244	Ś	5.27	Ś	17.095.88
	75	620-0100	LF	TEMP BARRIER. METHOD NO. 1	7560	Ś	24.32	Ś	183.859.20
	80	634-1200	EA	RIGHT OF WAY MARKERS	192	Ś	102.42	Ś	19.664.64
	82	436-1000	LF	ASPH CONC CURB - 4 IN	4584	Ś	8.15	Ś	37.359.60
	85	641-1100	IF	GUARDRAIL, TP T	464	Ś	43.86	Ś	20.351.04
	90	641-1200	IF	GUARDRAIL, TP W	9176	Ś	16.00	Ś	146.816.00
	95	641-5001	FA	GUARDRAIL ANCHORAGE. TP 1	8	Ś	806.45	Ś	6.451.60
	100	641-5012	FA	GUARDRAIL ANCHORAGE, TP 12	26	Ś	2.003.71	Ś	52.096.46
	105	643-8200	LF.	BARRIER FENCE (ORANGE) 4 FT	5568	Ś	1 28	Ś	7 127 04
	110	500-3101	CY	CLASS & CONCRETE	28	¢ ¢	690.26	Ś	19 327 28
	115	511-1000	IR	BAR REINE STEEL	1992	ې د	1 13	ŝ	2 250 96
	117	610-9099	15	REM WINGWALLS/PARAPETS STA - 168+95 LT SR 10	1 1	Ś	2 500 00	Ś	2,500,00
	125	550-1180	IF	STM DR PIPE 18" H 1-10	10005	¢	34 56	ç	345 772 80
	126	550-1181	LF	STM DR PIPE 18" H 10-15	386	ې د	39.01	\$	15 057 86
	127	550-1183	LF	STM DR PIPE 18" H 20-25	92	¢ ¢	52.00	Ś	4 784 00
	130	550-1240	L. I.F.	STM DR PIPE 24" H 1-10	2178	¢ ¢	44.28	ç ç	96 441 84
	130	550-1240		STM DR PIPE 24" H 10-15	2170	¢	51 50	¢	11 793 50
	132	550-1241	IF	STM DR PIPE 24" H 20-25	188	ې د	110.00	ς ς	20 680 00
	135	550-1245		STM DR PIPE 30" H 1-10	739	¢	59 57	¢	14 022 23
	1/0	550-1360		STM DR PIPE 36" H 1-10	516	¢	69.24	¢	35 727 8/
	1/1	550-1361		STM DR PIPE 36" H 10-15	222	¢	72 37	¢ ¢	16 066 14
	1/13	550-1/80		STM DR PIPE 48" H 1-10	87	ç	107.97	ç	9 292 29
	1/15	550-4215	FΔ	ELARED END SECT 15 IN ST DR	1	¢	159 91	¢ ¢	/59.95
	150	550-4215	EA		12	ې خ	520 10	ç	7 008 30
	155	550-4210	FΔ	ELARED END SECT 24 IN ST DR	13	ç	627 53	ç	7,000.30
	160	550-4224	FΔ	ELARED END SECT 30 IN ST DR	12	¢	737.03	¢ ¢	2 9/18 12
	165	550-4230	EA			ې خ	1 097 50	ç	5 / 87 50
	170	668-1100		CATCH BASIN GD 1	110	ې خ	1,037.30	ې د	2/4 577 20
	175	668-1110			152	ې خ	180 57	ې د	244,577.30
	175	669 1200			133	ې خ	2 6 2 2 6 0	ې د	15 7/1 60
	170	669 1210			0 27	ې خ	2,023.00	ې د	0 920 05
	120	668-2100	Γ		5/ 71	ې د	203.03 2 010 21	ې د	3,023.03 112 767 51
	100	668-2110			71	ې خ	174 54	ې خ	12 015 04
	105	000-2110			/4	ې د	1/4.54 2 216 76	ې د	12,313.30 2 216 76
	100	660 2210			1	ې خ	2,310.70	ې خ	2,510.70
	100	668-1200	LF FA		10	ې د	233.U3 1 820 1 F	ې د	470.10 27 072 05
	105	668,4211			19	ې د	100 7£	ې د	2 062 06
	106	660 4313			21	ې خ	100.70	ې خ	3,303.30 10.001 E0
	190	000-4312	LF	ST SEVV IVIAINTICLE, IP 1,A DEP, CL Z	50	Ş	200.03	Ş	10,001.50

198	500-3101 CY	CLASS A CONCRETE	8	\$	786.40	\$	6,291.20
199	511-1000 LB	BAR REINF STEEL	49	\$	1.67	\$	81.83
200	310-1101 TN	GR AGGR BASE CRS, INCL MATL	53480	\$	19.44	\$	1,039,651.20
205	400-3206 TN	ASPH CONC 12.5 MM OGFC, GP 2, INCL PMBM&HL	3415	\$	85.05	\$	290,445.75
210	402-1812 TN	RECYL AC LEVELING, INC BM&HL	43804	\$	64.03	\$	2,804,770.12
215	402-3121 TN	RECYL AC 25MM SP,GP1/2,BM&HL	18886	\$	63.62	\$	1,201,527.32
220	402-3130 TN	RECYL AC 12.5MM SP,GP2,BM&HL	2627	\$	83.02	\$	218,093.54
225	402-3190 TN	RECYL AC 19 MM SP.GP 1 OR 2 .INC BM&HL	10965	Ś	68.01	Ś	745.729.65
227	402-3600 TN	RECY AC 12.5.SMA.GP2 ON.INCLPBM&HL	6035	Ś	80.00	Ś	482.800.00
230	413-1000 GL	BITUM TACK COAT	10506	Ś	2.66	Ś	27.945.96
232	430-0200 SY	PLN PC CONC PV/MT/CL1C/ 10" TK	25599	Ś	40.00	Ś	1 023 960 00
245	500-0100 SY	GROOVED CONCRETE	663	Ś	7.03	Ś	4 660 89
243	211-0200 CV	BR EXCAV, GRADE SEPARATION	102 /	¢	28.32	¢	2 899 97
255	211-0200 CY	BR EXCAV, GRADE SEPARATION	76.8	ç	28.32	¢ ¢	2,055.57
255	211-0200 CT		70.8	ې خ	42.52	ې د	2,174.90
200	441-0004 SY		740.8	ې د	45.21	ې د	32,009.97
265	441-0004 SY	CONC SLOPE PAV, 4 IN	804	ې د	42.72	Ş	34,346.88
270	500-0100 SY	GROOVED CONCRETE	1600	Ş	5.28	Ş	8,448.00
2/5	500-0100 SY	GROOVED CONCRETE	1600	\$	5.28	Ş	8,448.00
280	500-1006 LS	SUPERSTR CONCRETE, CL AA, BR NO - 1 LT	599.2	Ş	625.14	Ş	374,583.89
285	500-1006 LS	SUPERSTR CONCRETE, CL AA, BR NO - 1 RT	589.6	Ş	625.14	Ş	368,582.54
290	500-3002 CY	CL AA CONCRETE	172.8	Ş	706.83	Ş	122,140.22
295	500-3002 CY	CL AA CONCRETE	161.6	\$	706.83	\$	114,223.73
300	507-9033 LF	PSC BEAMS, AASHTO, BULB TEE, 74"	2368	\$	245.29	\$	580,846.72
305	507-9033 LF	PSC BEAMS, AASHTO, BULB TEE, 74"	2368	\$	245.29	\$	580,846.72
310	511-1000 LB	BAR REINF STEEL	28370.4	\$	0.84	\$	23,831.14
315	511-1000 LB	BAR REINF STEEL	28079.2	\$	0.84	\$	23,586.53
320	511-3000 LS	SUPERSTR REINF STEEL, BR NO - 1 LT	111672.8	\$	0.64	\$	71,470.59
325	511-3000 LS	SUPERSTR REINF STEEL, BR NO - 1 RT	111231.2	\$	0.64	\$	71,187.97
330	520-1151 LF	PIL-IN-PL,STEEL H,HP 14 X 89	1752	\$	77.94	\$	136,550.88
335	520-1151 LF	PIL-IN-PL,STEEL H,HP 14 X 89	2048	\$	77.94	\$	159,621.12
340	520-4151 EA	LOAD TEST, STEEL H, HP 14 X 89	1	\$	0.84	\$	0.84
345	520-4151 EA	LOAD TEST, STEEL H, HP 14 X 89	1	\$	0.84	\$	0.84
350	540-1102 LS	REM OF EX BR, BR NO - 1 LT	1	\$	100,000.00	\$	100,000.00
355	540-1102 LS	REM OF EX BR, BR NO - 1 RT	1	\$	100,000.00	\$	100,000.00
360	544-1000 LS	DECK DRAIN SYSTEM, BR NO - 1 LT	1	\$	35,000.00	\$	35,000.00
365	544-1000 LS	DECK DRAIN SYSTEM. BR NO - 1 RT	1	Ś	35.000.00	Ś	35.000.00
370	643-1152 LF	CH LK FEN.ZC COAT. 6'. 9 GA	291	Ś	30.69	Ś	8.930.79
375	643-1152 LF	CHIKEEN ZC COAT 6' 9 GA	291	Ś	30.69	Ś	8 930 79
375	163-0541 FA	CONSTR & REM ROCK FILTER DAMS	15	ς ζ	587 21	Ś	8 808 15
380	163-0232 AC		20	¢	303 56	¢	6 071 20
385	163-0240 TN		585	ç	157.85	ç	0,071.20
200	162 0240 TN		200	ې خ	1 221 22	ې د	20 221 52
205	162 0E02 EA		24	ې د	1,221.73	ې د	29,321.32
400	103-0303 LA	CONSTRAND REMOVE SET CONTROL GATE, IF S	22	ې د	14.22	ې د	12 575 42
400	103-0520 LF		954	ې د	14.23	ې د	13,575.42
405	163-0527 EA		20520	ې د	262.49	ې د	28,873.90
407	163-0528 LF		26520	Ş	3.03	Ş	80,355.60
409	163-0529 LF	CNST/REM TEMP SED BAR OR BLD STRW CK DIM	2//	\$	4.43	Ş	1,227.11
410	163-0550 EA	CONS & REM INLET SEDIMENT TRAP	186	\$	128.57	Ş	23,914.02
415	165-0030 LF	MAINT OF TEMP SILT FENCE, TP C	25095	Ş	0.53	Ş	13,300.35
420	165-0041 LF	MAINT OF CHECK DAMS - ALL TYPES	20200	Ş	0.83	Ş	16,766.00
422	165-0087 EA	MAINT OF SILT CONTROL GATE, TP 3	22	Ş	70.46	Ş	1,550.12
425	165-0071 LF	MAINT OF SEDIMENT BARRIER - BALED STRAW	139	Ş	1.17	Ş	162.63
430	165-0101 EA	MAINT OF CONST EXIT	24	\$	572.65	\$	13,743.60
435	165-0105 EA	MAINT OF INLET SEDIMENT TRAP	93	\$	36.72	\$	3,414.96
440	167-1000 EA	WATER QUALITY MONITORING AND SAMPLING	2	\$	233.85	\$	467.70
445	167-1500 MO	WATER QUALITY INSPECTIONS	28	\$	402.51	\$	11,270.28
450	171-0030 LF	TEMPORARY SILT FENCE, TYPE C	50190	\$	2.74	\$	137,520.60
452	441-0204 SY	PLAIN CONC DITCH PAVING, 4 IN	8318	\$	29.08	\$	241,887.44
455	603-2180 SY	STN DUMPED RIP RAP, TP 3, 12"	295	\$	31.35	\$	9,248.25

460	603-7000 SY	PLASTIC FILTER FABRIC	295	\$	3.91	\$	1,153.45
465	700-6910 AC	PERMANENT GRASSING	39	\$	844.13	\$	32,921.07
470	700-7000 TN	AGRICULTURAL LIME	121	\$	75.90	\$	9,183.90
480	700-8000 TN	FERTILIZER MIXED GRADE	39	\$	522.41	\$	20,373.99
485	700-8100 LB	FERTILIZER NITROGEN CONTENT	1950	\$	2.14	\$	4,173.00
490	710-9000 SY	PERM SOIL REINFORCING MAT	200	\$	6.03	\$	1,206.00
495	716-1000 SY	EROSION CONTROL MATS, WATERWAYS	551	\$	2.31	\$	1,272.81
500	716-2000 SY	EROSION CONTROL MATS. SLOPES	20226	Ś	0.97	Ś	19.619.22
505	615-1200 LF	DIRECTIONAL BORE - 3"	1055	Ś	12.53	Ś	13.219.15
510	647-2160 EA	PULL BOX. PB-6	11	Ś	1.261.89	Ś	13.880.79
515	647-2170 EA	PULL BOX. PB-7	4	Ś	1.507.47	Ś	6.029.88
520	682-6222 LF	CONDUIT, NONMETL, TP 2, 2 IN	1820	Ś	5.35	Ś	9,737.00
525	682-6233 LF	CONDUIT NONMETL TP 3 2 IN	925	Ś	4 09	Ś	3 783 25
520	935-1113 LF	OUT PLATER OPT CRULOOSE TR SM 24 ERR	3065	¢ ¢	2 10	Ś	6 436 50
535	935-1511 LF		60	¢	2.10	ç	133 20
535	025 2101 EA		00	ې خ	572.00	ې د	2 202 00
540	935-3101 LA		4	ې د	417.00	ې د	2,292.00
545	935-30UZ EA	FBR. OP. CLOS., FDC PRE-TERIMI., TYP. A,	4	ې د	417.00	ې د	1,008.00
550	935-4010 EA	FIDER OFFIC SPLICE, FUSION	14	ې د	51.50	ې د	/19.04
555	935-0502 EA	EXT TRINSCVR, DRP&RP1, 1310SWI, (SIGNAL JOBS)	4	ې د	1,713.23	ې د	0,852.92
557	935-8000 LS		1	ې د	3,000.00	Ş	3,000.00
560	500-2110 LF	CONCRETE PARAPET, SPCL DES	1329	ې د	259.86	Ş	345,353.94
565	500-3200 CY	CL B CONC	0	\$	499.70	Ş	-
570	515-2020 LF	GALV STEEL PIPE HDRAIL,2",ROUD	155	Ş	49.23	Ş	7,630.65
575	516-1100 LF	ALUM HANDRAIL, STD 3626	1329	Ş	71.37	Ş	94,850.73
580	621-3021 LF	CONCRETE BARRIER, TYPE 21	303	Ş	184.00	Ş	55,752.00
585	621-3022 LF	CONCRETE BARRIER, TYPE 22	255	Ş	362.00	Ş	92,310.00
587	621-3125 LF	CONC BARRIER, TP 25S, MODIFIED	268	Ş	354.22	Ş	94,930.96
590	621-4021 LF	CONCRETE SIDE BARRIER, TY 2A	676	\$	373.41	\$	252,425.16
595	621-4022 LF	CONCRETE SIDE BARRIER, TY 2B	889	\$	562.73	\$	500,266.97
600	621-4023 LF	CONCRETE SIDE BARRIER, TY 2C	865	\$	700.22	\$	605,690.30
605	621-4062 LF	CONCRETE SIDE BARRIER, TY 6B	45	\$	425.50	\$	19,147.50
610	621-4063 LF	CONCRETE SIDE BARRIER, TY 6C	149	\$	631.50	\$	94,093.50
615	615-1200 LF	DIRECTIONAL BORE - 5 IN	279	\$	14.08	\$	3,928.32
620	636-1041 SF	HWY SIGNS,TP 2MAT,REFL SH TP 9	124	\$	34.28	\$	4,250.72
625	639-4004 EA	STRAIN POLE, TP IV	4	\$	7,246.37	\$	28,985.48
630	639-4014 EA	STR POLE, TP 4, INCL LUMIN. ARM	12	\$	8,329.17	\$	99,950.04
635	647-1000 LS	TRAF SIGNAL INSTALLATION NO - 1	1	\$	100,000.00	\$	100,000.00
640	647-1000 LS	TRAF SIGNAL INSTALLATION NO - 2	1	\$	100,000.00	\$	100,000.00
645	647-1000 LS	TRAF SIGNAL INSTALLATION NO - 3	1	\$	100,000.00	\$	100,000.00
650	647-1000 LS	TRAF SIGNAL INSTALLATION NO - 4	1	\$	100,000.00	\$	100,000.00
655	682-6233 LF	CONDUIT, NONMETL, TP 3, 2 IN	558	\$	4.09	\$	2,282.22
660	937-6050 EA	INT VIDEO DET SYS ASMBLY, TP A	19	\$	5,801.00	\$	110,219.00
665	937-6100 EA	OUTPUT EXPANSION MODULE, TP A	3	\$	362.03	\$	1,086.09
670	937-6150 EA	PROGRAMMING MONITOR, TP A	1	\$	482.05	\$	482.05
675	636-1020 SF	HWY SGN,TP1MAT,REFL SH TP3	1478	\$	12.35	\$	18,253.30
680	636-1033 SF	HWY SIGNS, TP1MAT, REFL SH TP 9	230	\$	17.82	\$	4,098.60
684	636-2070 LF	GALV STEEL POSTS, TP 7	1644	\$	5.98	\$	9,831.12
685	636-2080 LF	GALV STEEL POSTS, TP 8	144	\$	8.91	\$	1,283.04
689	638-1001 LS	STR SUPPORT OVHD SIGN, TP I, STA 1	1	\$	61,100.00	\$	61,100.00
690	638-1001 LS	STR SUPPORT OVHD SIGN, TP I, STA 2	1	\$	61,100.00	\$	61,100.00
694	638-1001 LS	STR SUPPORT OVHD SIGN, TP I, STA 3	1	\$	61,100.00	\$	61,100.00
695	638-1001 LS	STR SUPPORT OVHD SIGN.TP I.STA 4	1	\$	61,100.00	\$	61,100.00
700	653-0120 EA	THERM PVMT MARK, ARROW, TP 2	71	\$	73.12	\$	5,191.52
705	653-0130 EA	THERM PVMT MARK, ARROW. TP 3	9	Ś	98.91	\$	890.19
710	653-1501 LF	THERMO SOLID TRAF ST 5 IN. WHI	32815	Ś	0.38	Ś	12.469.70
715	653-1502 LF	THERMO SOLID TRAF ST 5 IN YEI	35837	¢	0.00	Ś	14 334 80
720	653-1704   F	THERM SOLID TRAF STRIPF.24" WH	1005	Ś	5.40 5.88	Ś	5 909 40
725	653-1804 LF	THERM SOLID TRAF STRIPF &" WH	9793	¢	1 97	¢	18 802 56
720	653-3501 GIF	THERMO SKIP TRAF ST 5 IN WHI	24205	ہ خ	0.2/	ې ¢	5 952 20
750	555 5501 GE		2-1000	Ŷ	0.24	Ļ	5,555.20

725			2057	ć	2 47	ć	7 1 2 7 7 0
/35	653-6004 SY	THERIVI TRAF STRIPING, WHITE	2057	Ş	3.47	Ş	7,137.79
740	653-6006 SY	THERM TRAF STRIPING, YELLOW	226	\$	4.03	\$	910.78
745	654-1001 EA	RAISED PVMT MARKERS TP 1	1921	\$	2.91	\$	5,590.11
750	654-1003 EA	RAISED PVMT MARKERS TP 3	70	\$	3.72	\$	260.40
755	432-0207 SY	MILL ASPH CONC PVMT/ 1.75" DEP	4074	\$	1.00	\$	4,074.00
760	432-0214 SY	MILL ASPH CONC PVMT, 3.5" DPTH	29059	\$	1.67	\$	48,528.53
765	432-5010 SY	MILL ASPH CONC PVMT, VARB DEPTH	8110	\$	3.10	\$	25,141.00
770	446-1100 LF	PVMT REF FAB STRIPS, TP2,18 INCH WIDTH	14923	\$	3.55	\$	52,976.65
				Subtota		\$	18,961,866.30

Logical Termini Form - To Be Completed

# DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA

#### INTERDEPARTMENT CORRESPONDENCE

FILE: NH-003-3(53) Clarke P. I. No.: 122890 U.S. 78/S.R. 10 Interchange

**OFFICE:** Engineering Services

DATE: December 5, 2007

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

TO: Babs Abubakari, P.E. State Consultant Design Engineer

### SUBJECT: IMPLEMENTATION OF VALUE ENGINEERING STUDY ALTERNATIVES

Recommendations for implementation of Value Engineering Study Alternatives are indicated in the table below. Incorporate alternatives recommended for implementation to the extent reasonable in the design of the project.

ALT No.	Description	Savings PW & LCC	Implement	Comments
A-2	Investigate a Developer Proposal to connect the Southbound Off Ramp to Huntington Court	\$115,000	No	Would result in ramp traffic being in conflict with traffic entering and exiting the developed property which would be a safety concern.
A-7	Change the Urban Shoulder width from 16 feet to 10 feet	\$204,000 (proposed) \$102,000 (revised)	Yes/Partial	The shoulder width will remain 16 feet on the mainline to better accommodate Utility Relocations and will be changed to 10 feet on the side roads.
A-7A	Eliminate the 2 ½ foot grassed area between the sidewalk and Retaining Wall	\$21,000	No	Since the 16 foot shoulder will be retained on the mainline this would not apply since this would cut the shoulder width to 13.5 feet on the mainline.
B-7	Shift the on-ramp location slightly to the West and use a 100 foot radius curve	\$33,000 (proposed) \$16,500 (revised)	Yes/Partial	The on-ramp location will stay the same but a 100 foot radius will be used.

NH-003-3(53) Clarke P.I. No. 122890 VE Study Implementation Page 2.

ALT No.	Description	Savings PW & LCC	Implement	Comments
B-7A	Close existing driveway at the Logans Steakhouse and provide a wider common access at Sta. $60+00\pm$ Lt. for Logans as well as adjacent property owners.	-54,000 (Cost Increase)	Yes	This is recommended for safety reasons. Access agreements should be obtained from the property owners to allow this to occur.
B-10	Eliminate the 4 foot Bike Lanes	\$473,000 (proposed) \$687,100 (revised)	Yes	This should be done. The revised cost savings includes bridge savings which was not initially included.
B-11	Reduce the 12 foot travel lanes to 11 feet	\$497,000 (proposed) \$718,900	Yes	This should be done. The revised cost savings includes bridge savings which was not initially included.
B-12	Close the Median Opening at Sta. 68+75 and provide a Type B Median Opening at Timothy Road and Jennings Mill Road	-\$186,000 (proposed) \$20,000 (revised)	Yes/partial	The median opening should be closed but the Type B Median Opening at Timothy Road and Jennings Mill Road will not be done since it would involve additional Right of Way impacts.
F-1	Eliminate the Concrete Curb and Gutter from a section on Jennings Mill Road	\$177,000	No	A land use permit utilizing an urban section to minimize impacts on the cemetery has already been obtained from the court system. Since a cemetery is involved any changes would require another permit delaying the project schedule.
C-2	Use MSE Walls and two - 93 foot spans and delete Bike Lanes on the bridge over S.R. 10	\$1,845,000	No	A more detailed cost estimate done by the Design Consultant revealed that this VE Alternative is more expensive than what was proposed.
C-2A	Use MSE Walls and one - 165 foot span and delete Bike Lanes on the bridge over S.R. 10.	\$1,376,000	No	A more detailed cost estimate done by the Design Consultant revealed that this VE Alternative is more expensive than what was proposed.
C-2B	Use two - 57 foot spans and two - 93 foot spans and delete the Bike Lanes on the	\$1,231,000	No	A more detailed cost estimate done by the Design Consultant revealed that this VE Alternative is more expensive

NH-003-3(53) Clarke P.I. No. 122890 VE Study Implementation Page 3.

ALT No.	Description	Savings PW & LCC	Implement	Comments
C-2C	Use two – 67.5 foot spans and one – 165 foot span and delete the Bike Lane on the bridge over S.R. 10	\$675,000	No	A more detailed cost estimate done by the Design Consultant revealed that this VE Alternative is more expensive than what was proposed.
A-1	Eliminate the short in- and-out steps in the Proposed Right of Way lines	Design Suggestion	Yes	This should be done.
В-2	Verify the superelevation match at the bridge	Design Suggestion	Yes	This should be done.
D-1	Review Drainage Structure locations and ensure they are within the Proposed Right of Way	Design Suggestion	Yes	This should be done.
E-1	Modify the Concrete Barrier End Treatments on the two Loop Ramps	Design Suggestion	Yes	This should be done.
L-1/2	Eliminate the Parapet and Pipe Handrail over the Retaining Walls	Design Suggestion	No	The Parapet and Pipe Handrail are required to provide pedestrian safety.

A meeting was held on November 29, 2007 to discuss the above recommendations. Allen Krivsky and Shawn Fleet with Heath and Lineback, Mike Haithcock with Consultant Design, and Brian Summers, Ron Wishon and Lisa Myers with Engineering Services were in attendance.

Additional information was provided on December 4, 2007.

The results above reflect the consensus of those in attendance and those who provided input.

Approved:

ulie MM

1807

Date:

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

BKS/REW

Attachments

NH-003-3(53) Clarke P.I. No. 122890 VE Study Implementation Page 4.

> c: Gus Shanine Todd Long James Magnus Randy Davis Robert Simpson Kevin DeWitt Mike Haithcock Doug Franks Amber Perkins Ken Werho Lisa Myers

# Heath & Lineback Engineers

# Memorandum

To: Michael Haithcock, GDOT-OEL

From: Shawn Fleet, HLE

CC: Allen Krivsky, Lisa Myers, Brian Summers, Ron Wishon

Date: 12/3/2007

Re: NH-003-3(53) – Clarke, P.I. No. 122890 Atlanta Hwy / S.R. 10 Loop Interchange Improvement VE Implementation Meeting on 12/1/2007

Items Discussed:

- Alt A-2, Not implementing, Comments on VE Response are adequate.
- Alt A-7, Implementing only on side streets, savings \$102,000
- Alt A-7A, Not implementing, Reducing shoulder width on side streets.
- Alt B-7, Implementing reducing radius only, savings \$16,500
- Alt B-7A, Recommending/Implementing, closing this driveway but will be up to the right
  of way office to negotiate ultimately.
- Alt B-10, Implementing, Revised savings \$687,100 (Including reduced bridge width)
- Alt B-11, Implementing, A revised Traffic Study is not required for this change since the current design will function at a capacity greater than a Level of Service "E" for the design year. Revised savings \$718,900 (Including reduced bridge width)
- Alt B-12, Implementing median closing only, Revised cost increase -\$20,000
- Alt C-2 through C-2C, Not implementing, VE Bridge cost calculations less detailed. More detailed cost calculations provided in VE response show that each alternate is more expensive then the proposed bridge.
- Alt F-1, Not implementing, Additional comments The typical section of Jennings Mill Road has been approved by Athens County Court system for land use permit change. Urban drainage system is better suited to convey stormwarter along the cemetery.
- A-1, Implementing design suggestion
- B-2, Implementing design suggestion
- D-1, Implementing design suggestion
- · E-1, Implementing design suggestion
- L-1/2, Not Implementing design suggestion, Parapet and hand rails are required.

Action Items:

- A Project Cover Sheet needs to be provided with for the VE team's submittal. HLE will
  provide.
- Upon the approval of the Implementation of VE Study Alternatives document, HLE will submit a supplemental agreement to incorporate approved alternatives.

Attendees:

Shawn Fleet, HLE Allen Krivsky, HLE Michael Haithcock, GDOT-OCD Lisa Myers, GDOT-ES Brian Summers, GDOT-ES Ron Wishon, GDOT-ES

Attachments: Reduced bridge width savings calculations

COMP. BY DATE OF OF
CHKD. BY DATE Heath & Lineback Engineers JOB NO
PROJECT ATLANTA HWY OVER SR 10 LOOF STRUCTURE
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SAUNGS

B-10 \$473,000 + \$214,050 = \$687,050 B-11 \$497,000 + \$221,833 = \$718,833



INTERDEPARTMENT CORRESPONDENCE

STATE OF GEORGIA

FILE NH-003-3(53) **OFFICE** Atlanta Clarke County PI No. 122890 US 78/SR10 (Atlanta Hwy over SR 10 Loop) DATE October 25, 2007 MBah abilata (1) FROM Mohammed (Babs) Abubakari, P.E., State Consultant Design & Program Delivery Engineer

TO Brian Summers, P.E., Project Review Engineer Attention: Lisa Myers

### SUBJECT VALUE ENGINEERING STUDY – FINAL REPORT RESPONSE

Below are the responses to the Value Engineering Study report dated August 10, 2007 for the above referenced project. Each comment was studied and addressed by both the Department's Project Manager and the Consultant's Project Manager:

Value Engineering Alternative A-2 - To investigate a Developer proposal to connect the southbound SR 10 loop off ramp to Huntington Court in lieu-of the current Huntington Road slip ramp connector.

- Ingress/egress access points on the SR 10 Loop exit ramp are unsafe and are not recommended. Egress access points on an exit ramp are susceptible to wrong way drivers on the exit ramp and SR 10 Loop.
- The expectation of driverrs exiting the SR 10 Loop southbound exit ramp is to emerge at the intersection of Atlanta Highway. This proposed configuration by the Diversified Development plans will not meet the driver expectation.
- The Diversified Development Property currently has an existing access point along Huntington Court. The interchange improvement project will not impact this access point.
- The current interchange design requires approximately 110 ft of right of way along the east side of the property to construct the realigned SR 10 Loop southbound exit ramp. These impacts conflict with the proposed development plans as submitted.
- The Diversified Development plans propose extending a portion of the southbound exit ramp to . Huntington Court. This would require extensive design and construction on Huntington Court and Biscavne Court to carry the increased traffic. Traffic volumes on the slip ramp are projected at 2750 vehicles per day for year 2031.
- Right of Way along SR 10 loop and the interchange ramp is limited access and is full access control.
- Topps 4A-3 directive requires access control be acquired on major arterials that are being reconstructed so that driveway connections are not permitted in the functional area of an intersection. Access connections too close to intersections can cause serious traffic conflicts that impair the function of the affected facility.
- Topps 4A-4 directive recommends only breaking access control for supporting street systems. It does not recommend breaking access control for individual driveway access points.

> An early land acquisition process is recommended to prevent this development that could ultimately jeopardize the design and construction of this interchange improvement project.
>  (We do not recommend the approval or the implementation of the Diversified Development plans).

Value Engineering Alternative No. A-7 - To change the project's 16-foot urban shoulder to a 10-foot urban shoulder.

- The 16 ft shoulders are the GDOT desirable width for urban shoulders. This additional shoulder width is necessary for relocating impacted existing utilities and for the installation of future utilities.
- There are many existing utilities throughout the project. These include an aerial electric transmission line, multiple aerial electric lines, multiple underground electric lines, multiple underground telephone lines, multiple gas lines, multiple waterlines and a sanitary sewer.
- A clear zone width of 20 ft is warranted along Atlanta Hwy. A right of way line set beyond the 16 ft shoulder will ensure that most of this area will be clear of obstructions.
- A clear zone width of 16 ft is warranted along Huntington Road. A right of way line set beyond the 16 ft shoulders will ensure that all of this area will be clear of obstructions.
- Right of way has been set just beyond the shoulder along Atlanta Highway and Huntington Road, easements have been used to construct slopes and minimize right of way in these areas.
- The clear zone along Jennings Mill Road is 13 ft. for slopes 6:1 or flatter. A right of way line set beyond the shoulders will ensure that all of this area will be clear of obstructions.
- Reducing the shoulder width to 10 ft in areas along Jennings Mill Road would require guardrail at 2:1 slopes. Adding guardrail requires an additional 5.5 ft of shoulder width.

(We do not recommend reducing the shoulder width to 10 ft).

*Value Engineering Alternative No.* A-7A – To eliminate the 2.5-foot grass area between the outside edge of the sidewalk and the inside edge of the retaining walls for a total shoulder width of 13.5 feet.

- The 16 ft shoulders are the GDOT desirable width for urban shoulders. This additional shoulder width will provide space to relocate impacted existing utilities and for the installation of future utilities.
- There are many existing utilities throughout the project. These include an aerial electric transmission line, multiple aerial electric lines, multiple underground electric lines, multiple underground telephone lines, multiple gas lines, multiple waterlines and a sanitary sewer.
- At the Burger King restaurant property near the beginning of the project, the 2.5 ft grass area
  was removed at the wall location to reduce right of way impacts to the property by preserving
  the business's drive through lane.

(We do not recommend reducing the shoulder width at all wall locations as a typical detail).

Value Engineering Alternative No. B-7 – To reduce the radius of the curve for the westbound right-turn movement from Atlanta Highway to the SR 10 northbound on ramp and shifting the ramp to the west.

 The radius of the curve for the westbound right-turn movement from Atlanta Highway to the SR 10 northbound entrance ramp can be reduced to 100 ft.

(We recommend reducing the radius for the curve on the northbound entrance ramp).

 Shifting the alignment to the west will cause 250 ft of additional ramp reconstruction. This cost is \$43,400. This cost exceeds the cost of right of way of \$33,000. (Detail cost calculations are included with this response).

(We do not recommend shifting the alignment of the northbound entrance ramp).

Value Engineering Alternative No. B-7A – To close the existing access driveway at the Logans Roadhouse parcel.

- The driveway at the Logans Roadhouse Parcel should be closed. Access changes for the Logans Roadhouse will likely need to be provided through the Athens Bypass LLC parcel for direct access to the proposed Jennings Mill Road signalized intersection.
- Access agreements between property owners may be difficult to obtain.

(We recommend closing the existing access driveway at the Logan's Roadhouse parcel).

Value Engineering Alternative No. B-10 – To eliminate the proposed 4-foot bike lane on both sides of Atlanta Highway.

 Adding 4 ft bike lanes to Atlanta Highway was a GDOT recommendation at the project concept kick off meeting. Bike lanes were added to the project concept at this time. Further research has proven that the Statewide Bicycle Route Network and the Athens-Clarke County Bicycle Master Plan do not identify this route for proposed bike lanes. (Clarke County Master Plan has been attached)

### (We recommend removing the 4 foot bike lanes from the Atlanta Highway typical section).

Value Engineering Alternative No. B-11 - To reduce the width of the 12-foot travel lanes on Atlanta Highway.

- The design speed and posted speed of Atlanta Hwy is 45 MPH. Future traffic on Atlanta Hwy is 78,300 vehicles per day. Reducing the lane width of Atlanta Hwy to 11 ft would reduce the functionality and the capacity of the interchange. A revised traffic study would be required to determine the possible reduction in level of service. Since this project is based on increasing capacity and mobility through the interchange area, this design suggestion is not recommended.
- The reduced lane width reduces driver comfort, reduces safety, and increases traffic accidents. (We do not recommend reducing the lane widths to 11 ft).

*Value Engineering Alternative No. B-12* – To close the Atlanta Highway median opening at Station 68+75 and provide Type B median crossovers at Timothy Road and Jennings Mill Road.

 Access to the shopping center can be provided at the proposed Jennings Mill Road signalized intersection and on Mitchell Bridge Road. Access improvements will likely be required through the shopping center to provide better access to the proposed Jennings Mill Road signalized intersection.

# (We recommend closing the median opening on Atlanta Highway station 68+75 at the Publix Shopping Center/Academic Sporting Goods Shopping Center).

- Adding a type "B" median crossover intersection on Atlanta Hwy at the Mitchell Bridge Road/Timothy Road intersection will extend the project through this intersection. Adding this improvement would require the realignment of Mitchell Bridge Road/Timothy Road to improve the substandard skew of these roads at the intersection.
- Adding a type "B" median crossover intersection on Atlanta Hwy at the Mitchell Bridge Road/Timothy Road intersection will extend the project and does not conform to the logical termini points for this project.

(We do not recommend adding a type "B" median crossover intersection on Atlanta Hwy at the Mitchell Bridge Road/Timothy Road intersection).

Value Engineering Alternative No. C-2- To construct a 186'x146'-5" two span bridge with 2-93' spans and "U" shaped MSE walls at the abutment ends.

- A more detailed cost calculation reveals that alternative C-2 is approximately \$134,000 more expensive than the proposed 300'x146'-5" bridge (2 spans at 150'). (Detailed cost calculations are attached).
- Alternative C-2 will restrict the cross section of the SR 10 loop for future widening to the outside.
- MSE walls complicate and lengthen staged construction time with the addition of waiting periods inherently required with MSE wall construction.
- Alternative C-2 layout does not allow for longitudinal drainage ditch along SR 10. There will be additional cost and maintenance associated with this alternate to be considered.

# (We do not recommend a 186'x146'-5" two span bridge with 2-93' spans and "U" shaped MSE walls at the abutment ends for this project).

*Value Engineering Alternative No. C-2A-* To construct a 165'x146'-5" single span bridge with "U" shaped MSE walls at the abutment ends.

- A more detailed cost calculation reveals that Alternative C-2A is approximately \$88,500 more expensive than the proposed 300'x146'-5" bridge (2 spans at 150'). (Detailed cost calculations are attached).
- Alternative C-2A will reduce the shoulder width to 2 feet less than the desirable shoulder width.
- Alternative C-2A will restrict the cross section of the SR 10 loop for future widening to the outside.
- MSE walls complicate and lengthen staged construction time with the addition of waiting periods inherently required with MSE wall construction.
- Alternative C-2A layout does not allow for longitudinal drainage ditch along SR 10. There will be additional cost and maintenance associated with this alternate to be considered.

(We do not recommend a 165'x146'-5" single span bridge with "U" shaped MSE walls at the abutment ends for this project).

Value Engineering Alternative No. C-2B- To construct a four span 300'x146'-5" bridge with 2-57' spans and 2-93' spans across SR 10.

- A more detailed cost calculation reveals that Alternative C-2B is \$456,000 more expensive than the proposed 300'x146'-5" bridge (2 spans at 150'). (Detailed cost calculations are attached).
- Alternative C-2B will restrict the cross section of the SR 10 loop for future widening to the outside.
- Alternative C-2B will lengthen construction time to build 2 additional intermediate bents.

(We do not recommend a four span 300'x146'-5"bridge with 2-57'spans and 2-93' spans for this project).

Value Engineering Alternative No. C-2C- To construct a three span 279'x146'-5" bridge with 2-57' spans and 1-165' span across SR 10.

- A more detailed cost calculation reveals that Alternative C-2C is approximately \$500,000 more expensive than the proposed 300'x146'-5" bridge (2 spans at 150'). (Detailed cost calculations are attached).
- Alternative C-2C will restrict the cross section of the SR 10 loop for future widening to the outside.

• Alternative C-2C will lengthen construction time to build 2 additional intermediate bents. (We do not recommend a three span 279'x146'-5"bridge with 2-57'spans and 1-165' span for this project).

Value Engineering Alternative No. F-1 – To minimize the amount of urban curb and gutter shoulder on Jennings Mill Road.

- Neighborhoods, apartments, businesses and a church are located along Jennings Mill Road. Eliminating the sidewalks along a portion of Jennings Mill Road would not provide connectivity from these areas to the many shopping, eating and retail businesses located along Atlanta Hwy. Retaining the sidewalk potentially reduces traffic and improves the community.
- Eliminating the sidewalks along a portion of Jennings Mill Road would reduce safety for pedestrian traffic along this portion of Jennings Mill Road.

(We do not recommend eliminating sidewalk along a portion of Jennings Mill Road).

### Additional Design Suggestions:

- Right of Way Steps Right of way is typically stepped to remain parallel with roadway
  centerlines. In some areas, the right of way lines will be tapered to reduce steps and reduce
  the total right of way area required.
- Superelevation on the bridge The superelevation transition will be corrected to remove transition from the bridge.
- Concrete Barrier Modification The design of the concrete barrier will be revised so the end treatments will end outside of the clear zone for on coming traffic. The end treatments will begin parallel to the exit ramps and end parallel to the loop entrance ramps.
- Eliminate Parapet and Pipe Hand Rail The parapets must be retained on walls within the clearzone. The pipe hand rails will be utilized where they are required to protect pedestrians from falls. GA STD 3626 aluminum hand railing will be utilized on top of parapets for aesthetics and to reduce future maintenance cost.

COMP. BY 67	PDATE7	e	SHEET	OF
CHKD. BY	DATE	Heath & Lineback Engineers	JOB NO	19
PROJECT US	78 OVER SELO	STRUCTURE		
NOTE: STRU	ICTURE ELEMEMENTS LOMMON	A FTWEEN THE PROPOSED STRUCTURE AND A	LTORNALS NE'S ARE	NOT LISTED.
	PROPOSES RETAGE	E WITH BIKE LANES BE	TAGE WILTH	= 154-5"
	2-SPAJS E 150'			
	DECK = 154'-5" x 7	1/2" x 300 = 1072 = x \$ 1200 = \$ 1,	286,400	
	BERAS : 300 × 22	BOAMS - 6,000 LE X\$200 - \$ 1,3	20,000	
	BENTS = 5'x5'x75	"+ 3 < 5" × 5" × 20"+ 3× 12" < 12" < 3"= 1	73 cr 2 Remain 3	4= x \$600-\$207,60
	SUPER REFAT = 220	#/cy x 1072 cy : 246, 500 165 x	\$1.00 = \$ 246, 5	60
	SUB RETURE 180 2/0	-y x 346 - + 62,280 13, x \$1.00	- 4 62,280	
	PILES = END BENT	5: 22 FILES & 55 LF : 1,210 LP	×2 BENTS Z,	420 - F.
	I STER ME	brant new + 10 Prics we Features i	oo Pricix Holer.	2,400 - F
		2420 65+240065	+ 4,820LFx\$70	o \$337,400
		707AL = \$	1,460,240	
	2- SPANS @ 150'	ITTHOUT BERE LANES BREDE WE	574 = 146 -5"	
	Deck, 146'.5" x 7 1/2"	x 300 : 1,017 4 \$1200 -\$1,220,	100	
	BEHMS, 300' × ZO BE	AMS - 6,000 LF. X1200 \$1,200,0.	00	
	BET1 4207, 600			
	SUPPER RETWOL = 230 they	× 1017 ° × 233,910 163 ×\$1.00 €	233,910	
	SUB REINF. : 180 they	x 340 -> - 62,280 165×11.00= \$ 62	, 280	
	PILES ENSOLITS. 20	PJ-05 x 55 LF = 1,100 LF x 7	L BENTST 2, Z	20 L.f
	FUTER MEDIA	TE BEAT : 10 PILESN & FOOTS- 15-	60 PELES X 2	100 65

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2,200 LF + 2,400 LF 4600 LF \$522,000

TOTAL - \$ 3, 2 46, 140

COMP. BY GT	DATE 8-3-07		SHEET OF
CHKD. BY	DATE	Heath & Lineback Engineers	JOB NO 4009
PROJECT		STRUCTURE	
	WITH OUT BIKE LANES		
	ALT C-Z - 25 PAN CZO	93 FT) WITH 'U' ASE WALL	BRIGE VISTHE 146. 417
	DECK = (2×93)(146.417)×7	"2" : 630 "x 61200 - \$750	, 000
	BERMS - 186 × 26 BEAN	ns = 4,8362F x8137 =\$ 662	,532
	MSE WALL , H UNDER BRID	ide - 21. 42 FT, L UNSER BI	2000 17184
	AREA UNDER	ARTSOF = 2 (2142× 1715-)	-7,320 5-
		7, 326 5-3 × \$55.55	\$406,959
	COPTNG A	· 2x1715- 342 - 1 x \$70	-\$23,940
	H ZOR MSE I	TD 23 = 28 FT, L = 60 FT	
	AREA OF MSC	222952 - 1020 645× 412952 , 63	20 ++2 ×659-8396,480
	CDPING V	· 4 ~ 60FT: 240 -FX\$250:	100,000
	ADJETISNAL BACKSTLL MA	-2R=1221465 572 × 5.75 5 - 1	424 FT= 312
		= 312 ×222+35 624 ×	\$200 \$ \$124,200
	BENTS = 1 20,7,600		
	ADDATIONAL ROADINAY = 3	00 FT - (2x 03) - 114 FT x \$	1530 =\$174,420
	SUPER REFAT , 230 Thy & U	20 47 = 144,900 165 ×\$1.00 =	\$144,700
	SUB RETAR 180 They x 546	· · · 62,280 165 x \$ 1.0 = \$ 62	280
	POLES : END BEATS - 20 P	2253 x 55 25 × 1,430 24 x	2 BENTS = 2,800 L.T.
	FUTER MENTATE AS	enter to Paces & Groatanos.	60 PIGTS + 4010, 2,400 LA
		2,8601+290015, 5260	15 11 70 第368, 200

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омр. вү <u>(</u> /			SHEETOF
HKD. BY	DATE	Heath & Lineback Engin	JOB NO. 4004
ROJECT		STRUCTURE	
	WITH OUT BIRE LAN ALT L-2A - I SPAN	(16547) WITH U MS& WALL	BRIGE WING +146 417
	DEEK: 165 × 140.	17" = 7"2"; 559."Y × \$ 1200 \$	670,900
	BEAMS - 165 'x 30	BERMS- 4950 LF X \$200 4 :\$9	90,000
	MSE MALL: H WAS	SER BRIDE - 19 PT, L UNDE	R BRIDGE . 171
	$f(x) \in \mathcal{C}^{m_n}$	VADER REFIGE : 2 (19×1718	7) = 6498 FT
		6498 FT2 x1	855.55-5360,964
	COPSUL	= A = 2 × 171+7 = 342 65×\$70	0 - \$ 23, 940
	H EUR	MSE STORY : 28 FT, L: 60	K-T-
	A RET	of MSE 35065+ 1,680 772 x 4	4 57-363 · 6,720 +t= 4859-48 396,480
	Catavo	5 V = 4 × 83 5 FT = 334 LF ×82 5	060,000 8-07
	ADDITIONAL BACK	FILL MATORTAL 21465 FT X 8	143 Fr + 11,965 Fr + 443 M
		443 ° × x :	2 · 286 × 81200-0177,200
	BBBITZONEL ROAL	147 - 30047 - 16547 - 135 M	x\$ 1530 =\$ 200, 550
	SUPER RESUL 230	N/41 x 559 " = 128,570 1+1 x 1	\$1 00 : \$ 128,570
	PILES = 30 PILE	s x ssle. 1, asole lever 13,20	10 - Fx \$97 - \$320, 100
		TURAL	3 2141.24

COMP. BY 674	DATE		SHEETOF
CHKD. BY	DATE	Heath & Lineback Engineers	JOB NO. 4009
PROJECT		STRUCTURE	
	WITHOUT BIKE LANES		
	ALT L-ZB - 4 SAW	2857 \$ 2893 BRTOGE WI	47 M = 146, 417
	beck : 300 FT x 146,417	FT x 7 1/2" = 1017 4 × \$ 1,200 -	\$ 1,220,400
	DEAMS - 74PE II - 2 74PE II - 2	2×57 FI = 114 FT × 20 BEAMS - × 95 FT = 186 FT × 20 BEAMS - :	2,964 400,140 2280 2.8 × 135 + 307,800 3,720 28 × 8/37=\$ 594,640 4836 662,532
	BENTS: \$ 207,600 x 3	BENT - \$ 622, 800	
	SUPER RESULT. 220 they	× 1017"", 233,910 1, 2410 ; #	233,910
	JUB REFATS 180 they x 1	038 -1: \$18 5 840	
	Pries : ENS REINTS = 2	6 Fales & SSLF = 1,430 LF × 2 3	22751 2,860 L.F.
	TATER MEDERAL	2 IS PICKS X GEODINGS X 3 BENDS	180 PILLESX HOLF = 7, 200 L.F

2,860 4++7,200 4F - 10,000 6F x \$70 -\$ 704,200

707AL , 3,702, 4/2

Abjustment for Intermedone rents

5 5

-253 (\$622,800 +\$186,840 + 7200 ×570) =# 328,410

COMP. BY GTP	DATE		SHEETOF
CHKD. BY	DATE He	eath & Lineback Engineers	JOB NO. 4009
PROJECT	S1	RUCTURE	
	WITH OUT RIRE LANDS		
	ALT 6-26 3 SPAN 2 R 47.	C' + 1 R 165'	
	DECK : 300 FT X 146,417 FT 1	זאר מסבול א <sup>יא</sup> הוטו - "בליך	1,220,400
	BEANS - 105 × 30 BEAMS - 3 135 × 1824 BEAMS - 3 FASCEA - 135 × 4 BEAM	4950 Lt. K\$200 × \$990,00 ,240 Lt. X\$137 - \$ 445, 5- 540 Lt X\$200 - \$ 108,0	6 880 333000
	65475 =8 207,600x 2 =\$ 415	7200	
	SUPER ROANT = 230 Thy VIDI7"	= 233,910 Hs v\$1.00-\$23	3,910
	SUB REFUE - 180 thy x 492 th	= 124,500/6 ×11.0 1812	-4, 500
	PILES - ENDBENTS - 20 Pales	×5564 - 1,42026×2 BE	
	THER MENTHER IN PILE	Tx 6 FOOTS 4 2 DEPTS + 1	2015×4015= 480015
		2,8602F+ 4,800 LF+	7,660252370-7536,200

7674233,742,330

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> - 25/ (415,200 + 124,560 + 18000 70) 5 218940 2 5#3742,330

Pavement Calculations for VE Alt B-7 Atl Hwy over SR 10 Loop

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25-Sep-07 Page 1

ł	RECYCLED A	SPH. CONC.	12.5mm SU	PERPAVE, GP.	2 ONLY, I	NCL. B	ITUM MATL 8	H LIME	
4	Location	Area	unit	unit weight	unit	total	unit	Unit Price	Price per LF
	Mainline		2.9 SY	0.0825	Tons/SY		0.2 Tons		
_					Total		0.2 Tons	70	14
3	RECYCLED A	SPH CONC 1	9 MM SUPE	RPAVE, GP 1 0	OR 2, INCL	BITUN	MATL & H L	IME	
3	Location	Area	unit	unit weight	unit	total	unit	Unit Price	Price per LF
	Mainline		2.9 SY	0.2200	Tons/SY		0.6 Tons		
_					Total		1 Tons	90	54
2	RECYCLED AS	SPH CONC 2	5 MM SUPE	RPAVE, GP 1 0	OR 2, INCL	BITUN	MATL & H L	IME	
	Location	Area	unit	unit weight	unit	total	unit	Unit Price	Price per LF
	Mainline		2.9 SY	0.3300	Tons/SY		1 Tons		
					Total		1 Tons	80	80

D	Location	Area	unit	unit	total	unit	Total	Unit	Unit price	Price per LF
	Mainline(10 in)	9	.8 SY	Tons/SY		2 SY		1 Tons		
L				Total		2 SY		1 Tons	25	25

BITUM TACK O	COAT							
Location	Area	unit	unit weight unit	layers	total	unit	Unit Price	Price per LF
Mainline	2	9 SY	0.035 GL/SY		3	0.3 GL		
		0		Total		0.3 GL	2	0.6

Total Price per LF \$174

Ramp 6 = 250 ft

Total Cost \$43,400



















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### Traffic Study & Concept Synopsis:

- 10-24-2014 Revised GDOT traffic volumes completed.
- 12-12-14 Stantec prepared revised traffic study Scenario 3 with Improvements recommended.
- 12-12-14 Traffic Analysis Summary Chart was completed and is included following the Synopsis.
  - <u>Scenario 2</u> Is a reduced scope layout proposed by Athens Clarke County (ACC).
  - $\circ$  <u>Scenario 3</u> Is the approved GDOT Concept with reductions requested by ACC.
    - Reduced impacts to the commercial properties west of Huntington Road.
    - Added a left turn ingress access point to the Publix Shopping Center on the east end of the project.
  - <u>Scenario 2 & 3 "With Improvements"</u> includes recommended improvements at the Timothy Rd/Mitchell Bridge Rd (TR/MBR) Intersection.
- 2-19-2015 The Traffic Study and Layouts were presented to District 1. The Scenario 3 with improvements produced acceptable LOS at all intersections. The project layout was then revised to include the TR/MBR Intersection improvements.
- 4-16-2015 The Scenario 3 layout with improvements was presented to FHWA. FHWA concluded that the TR/MBR Intersection improvements needed to be included in concept and environmental document to meet Logical Termini requirements.
- 7-1-2015 The Scenario 3 layout with improvements was presented to ACC for concurrence. ACC requested that GDOT reduce traffic and reduced lanes through the interchange.
- 7-22-2015 GDOT reevaluated and reduced traffic volumes were completed.
- 8-11-2015 Stantec analyzed reduced traffic volumes.
  - o Scenario 2 & 3
    - Scenario 2 & 3 without improvements to TR/MBR Intersection were selected to analyzed and determine if improvements at TR/MBR the intersection were needed due to the reduced traffic.
  - <u>Created Scenario 4</u> with improvements to TR/MBR Intersection.
    - Scenario 4 is Scenario 3 with a reduced lane in each direction through the interchange generally from Huntington Road to Jennings Mill Road.
- 8-11-2015 Traffic Analysis Summary Chart was completed and is included following the Synopsis.
  - Results show that Scenario 2 produces LOS Es and Fs for certain movements in the Huntington Road, Southbound Ramp and TR/MBR Intersections.
  - Results show that Scenario 3 produced acceptable LOS at all intersections and did not require improvements to TR/MBR.
  - Results show that Scenario 4 produced acceptable LOS at all intersections.
  - Improvements to TR/MBR are not proposed since Scenario 3 produced acceptable LOS and improvements are not required with the reduced traffic.
- Scenario 4 without improvements to TR/MBR Intersection is selected as the preferred Alternate.

<u>Conclusion</u>: Since Scenario 3 produced acceptable LOS at TR/MBR in the final analysis, and Scenario 3 and Scenario 4 includes the same added lanes between Jennings Mill Rd to TR/MBR, Scenario 4 will provide acceptable LOS at TR/MBR intersection.

- \* See Meeting Notes and E-mails for additional information.
- \* See Traffic Analysis Summary Charts for additional information.



### Reference: Atlanta Highway at SR 10 Loop Traffic Analysis Summary

LOS / Delay Summary Table		2014 Evisting		2021 No Puild		2021 Build			2041 No Build		2041 Build				2041 Build with Improvements				
Intersection		2014 Existing		20211	IO-DUIIO	Scen	ario 2	Scen	ario 3	2041 N	IO-DUIIO	Scen	ario 2	Scen	nario 3	Scenario 2		Scen	ario 3
Intersection		AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
	Overall	A (3.1)	A (4.2)	A (3.3)	A (4.7)	A (4.0)	A (6.5)	A (4.2)	A (5.2)	A (4.3)	A (6.3)	A (4.5)	A (8.4)	A (4.9)	A (6.6)	A (4.5)	A (8.1)	A (4.9)	A (8.7)
Atlanta Hwy. @	EB	A (2.9)	A (3.5)	A (3.2)	A (4.4)	A (3.3)	A (5.0)	A (3.0)	A (5.0)	A (4.4)	A (5.6)	A (4.7)	A (6.8)	A (4.5)	A (6.7)	A (4.7)	A (6.7)	A (4.7)	A (6.7)
GA Square Mall Dr.	WB	A (1.3)	A (0.8)	A (1.2)	A (1.0)	A (2.5)	A (4.1)	A (3.9)	A (1.4)	A (2.1)	A (1.8)	A (2.1)	A (5.6)	A (3.4)	A (2.0)	A (2.3)	A (5.5)	A (3.1)	A (6.7)
	SB	D (42.5)	D (43.7)	D (41.7)	D (43.7)	D (44.1)	D (43.2)	D (39.9)	D (43.2)	D (40.8)	E (55.7)	D (39.2)	D (49.6)	D (43.0)	D (46.8)	D (39.2)	D (46.8)	D (39.2)	D (46.8)
	Overall	B (17.5)	D (39.9)	B (18.3)	D (45.6)	B (16.6)	D (41.6)	B (14.8)	C (31.5)	C (22.3)	F (104.0)	C (21.2)	E (66.3)	B (16.7)	D (41.4)	B (19.3)	D (37.5)	B (16.8)	C (33.0)
Atlanta Hwyy @	EB	B (14.8)	C (32.7)	B (16.6)	C (33.9)	B (14.8)	D (40.2)	A (9.7)	C (27.5)	C (21.7)	F (88.7)	C (26.8)	D (43.1)	B (12.1)	C (31.3)	B (13.5)	E (57.3)	B (11.8)	C (32.5)
Huntington Pd	WB	A (9.0)	C (31.8)	A (8.7)	C (32.8)	A (6.5)	C (21.2)	A (9.9)	C (24.8)	B (11.5)	F (103.5)	A (5.9)	E (59.8)	B (10.5)	C (28.8)	A (4.8)	C (20.7)	B (12.6)	C (25.1)
Huntington ku.	NB	D (53.7)	D (44.5)	D (53.4)	E (56.6)	E (56.8)	D (42.1)	D (51.2)	D (42.4)	D (52.7)	F (88.8)	D (49.4)	D (53.4)	E (55.0)	D (41.0)	F (140.5)	D (51.3)	D (49.6)	D (35.3)
	SB	E (57.2)	E (74.3)	E (58.3)	F (99.4)	E (55.0)	F (103.1)	D (47.7)	D (53.6)	E (63.7)	F (138.9)	D (50.4)	F (132.0)	D (51.6)	F (96.1)	D (46.5)	D (45.1)	D (46.7)	E (55.7)
	Overall	C (23.6)	D (40.0)	C (27.1)	E (60.7)	C (23.4)	C (27.6)	A (9.7)	B (10.6)	D (36.8)	F (123.3)	C (29.0)	E (58.0)	B (11.5)	B (13.5)	C (31.4)	D (51.3)	B (11.0)	B (13.7)
Atlanta Hwy. @	EB	B (16.3)	D (35.4)	B (19.0)	E (69.2)	B (18.5)	B (19.6)	A (6.8)	A (6.7)	C (31.2)	F (132.3)	C (23.9)	E (66.3)	A (8.7)	A (8.8)	C (28.3)	D (49.7)	A (8.4)	B (10.6)
SR 10 Loop SB Ramps	WB	B (15.1)	C (34.1)	C (22.4)	D (42.6)	A (9.9)	C (20.9)	A (5.1)	B (10.9)	B (19.5)	F (103.9)	B (17.3)	C (33.2)	A (7.0)	B (15.2)	B (18.4)	C (31.7)	A (6.2)	B (13.4)
	SB	D (44.9)	E (60.3)	D (46.3)	E (75.3)	D (44.5)	E (56.5)	B (19.1)	B (18.5)	E (62.3)	F (139.4)	D (48.8)	F (85.0)	C (20.6)	C (20.9)	D (48.8)	F (90.2)	B (19.7)	C (20.9)
	Overall	A (7.6)	A (8.7)	A (8.3)	B (11.1)	B (12.5)	A (9.7)	A (7.0)	A (8.0)	B (11.3)	B (18.2)	B (12.8)	B (15.0)	A (7.2)	A (7.2)	B (12.8)	B (14.7)	A (7.4)	A (9.2)
Atlanta Hwy. @	EB	A (5.5)	A (5.4)	A (6.7)	A (3.8)	A (4.7)	A (3.8)	A (4.7)	B (11.0)	B (11.7)	A (9.0)	A (5.5)	A (4.7)	A (4.1)	A (4.0)	A (5.6)	A (6.0)	A (4.2)	A (9.2)
SR 10 Loop NB Ramps	WB	A (3.0)	A (6.9)	A (3.1)	A (4.3)	A (2.1)	A (1.2)	A (2.3)	A (1.6)	A (4.2)	A (9.9)	A (2.3)	A (9.9)	A (2.5)	A (5.2)	A (2.0)	A (9.4)	A (4.8)	A (5.5)
	NB	C (20.4)	C (20.7)	C (20.5)	D (45.6)	D (49.4)	D (45.6)	C (20.4)	B (19.5)	C (20.7)	E (60.4)	D (48.0)	D (51.2)	C (22.3)	B (19.6)	D (48.0)	D (47.6)	C (20.0)	B (19.6)
	Overall	B (14.8)	B (14.7)	C (31.0)	F (117.9)	-	-	-	-	F (##)	F (120.8)	-	-	-	-	-	-	-	-
Atlanta Hwy. @	EB	A (0.1)	A (0.3)	A (0.1)	A (0.4)	-	-	-	-	A (0.1)	A (0.6)	-	-	-	-	-	-	-	-
Logan's Roadhouse Driveway /	WB	A (1.4)	A (0.6)	A (1.4)	A (0.7)	-	-	-	-	A (2.1)	A (1.0)	-	-	-	-	-	-	-	-
Jennings Mill Rd.	NB	F (148.9)	F (235.6)	F (##)	F (##)	-	-	-	-	F (##)	F (##)	-	-	-	-	-	-	-	-
	SB	B (10.0)	B (17.1)	B (10.3)	B (19.3)	-	-	-	-	B (10.8)	C (25.8)	-	-	-	-	-	-	-	-
	Overall	-	-	-	-	A (0.0)	A (0.0)	# (#)	# (#)	-	-	A (0.0)	A (0.1)	# (#)	# (#)	A (0.0)	A (0.1)	# (#)	# (#)
Atlanta Hwy. @	EB	-	-	-	-	A (0.0)	A (0.0)	# (#)	# (#)	-	-	A (0.0)	A (0.0)	# (#)	# (#)	A (0.0)	A (0.0)	# (#)	# (#)
Logan's Roadhouse Driveway	WB	-	-	-	-	A (0.0)	A (0.0)	# (#)	# (#)	-	-	A (0.0)	A (0.0)	# (#)	# (#)	A (0.0)	A (0.0)	# (#)	# (#)
	SB	-	-	-	-	A (9.4)	B (11.9)	# (#)	# (#)	-	-	A (9.6)	B (13.2)	# (#)	# (#)	A (9.6)	B (13.2)	# (#)	# (#)
	Overall	-	-	-	-	A (5.8)	A (4.5)	A (6.1)	A (4.6)	-	-	A (6.3)	A (7.3)	A (7.3)	A (6.5)	A (6.5)	A (7.9)	B (12.1)	A (7.3)
Atlanta Huuu @	EB	-	-	-	-	A (3.5)	A (2.7)	A (5.3)	A (3.2)	-	-	A (2.1)	A (4.1)	A (7.1)	A (5.7)	A (2.5)	A (4.7)	B (10.8)	A (4.6)
	WB	-	-	-	-	A (1.7)	A (3.3)	A (5.8)	A (5.6)	-	-	A (4.7)	A (5.4)	A (4.9)	A (4.9)	A (4.4)	A (6.9)	A (6.1)	A (7.3)
Jennings Milli Rd.	NB	-	-	-	-	C (32.2)	C (28.2)	B (12.7)	A (6.0)	-	-	D (37.3)	D (46.1)	B (15.2)	C (26.1)	D (37.3)	D (39.4)	D (37.5)	C (26.1)
	SB	-	-	-	-	A (0.0)	A (0.5)	A (0.0)	A (0.1)	-	-	A (0.0)	A (0.3)	# (#)	A (0.3)	# (#)	A (0.2)	# (#)	A (0.3)
	Overall	B (19.7)	D (46.7)	C (20.6)	E (59.1)	B (15.3)	D (49.7)	C (20.9)	D (51.7)	C (26.3)	F (99.3)	B (19.5)	F (85.5)	C (25.2)	F (92.1)	B (17.0)	D (53.4)	B (18.0)	D (54.7)
Atlanta Hwy. @	EB	B (12.2)	C (33.4)	B (12.7)	C (32.2)	A (4.3)	C (26.2)	B (15.2)	C (32.2)	B (19.9)	E (56.1)	B (11.3)	D (46.0)	B (19.4)	D (49.6)	A (9.1)	C (29.8)	B (10.6)	D (37.4)
Mitchell Bridge Rd. / Timothy	WB	C (22.5)	D (49.7)	C (22.7)	E (74.8)	B (15.2)	E (59.2)	B (15.4)	E (59.6)	C (26.6)	F (133.0)	B (17.7)	F (107.1)	B (17.7)	F (124.2)	B (17.1)	E (72.6)	B (17.4)	E (68.1)
Rd.	NB	D (42.5)	E (69.4)	D (44.0)	F (87.4)	D (48.9)	E (75.2)	D (45.3)	E (74.9)	D (47.5)	F (125.4)	D (48.4)	F (117.0)	D (52.8)	F (120.5)	D (40.7)	E (59.0)	D (40.6)	E (58.6)
	SB	C (27.6)	D (47.1)	C (30.1)	E (56.4)	C (32.1)	F (95.1)	C (29.5)	E (56.7)	C (32.8)	F (96.5)	C (29.5)	F (99.8)	C (32.9)	F (88.5)	C (29.5)	E (64.6)	C (29.5)	E (62.7)

# (#) - No value calculated by Synchro

F (##) - Delay calculated by Synchro greater than 300 second



August 11, 2015 Shawn Fleet Page 1

### Reference: Atlanta Highway at SR 10 Loop Traffic Analysis Summary

LOS / Delay Summary Tabl	е	2041 Build								
						Scenario	o 4 (with			
Intersection		Scen	ario 2	Scen	ario 3	Improve	ements)			
		AM	PM	AM	PM	AM	PM			
	Overall	A (3.7)	A (6.5)	A (4.2)	A (6.9)	A (3.9)	A (6.8)			
Atlanta Hwy. @	EB	A (3.4)	A (6.4)	A (3.6)	A (6.4)	A (3.4)	A (5.7)			
GA Square Mall Dr.	WB	A (3.0)	A (4.0)	A (4.2)	A (4.8)	A (3.6)	A (5.6)			
	SB	D (38.7)	D (44.9)	C (34.6)	D (44.9)	C (34.0)	D (43.3)			
	Overall	C (28.2)	D (48.0)	B (17.7)	C (24.0)	B (19.4)	C (24.5)			
Atlanta Hwy @	EB	D (39.6)	E (76.2)	B (16.3)	C (22.1)	B (18.2)	C (23.4)			
Huntington Rd.	WB	A (6.8)	B (10.7)	A (9.9)	B (15.6)	B (11.9)	B (15.3)			
	NB	E (58.3)	D (53.3)	D (50.2)	D (49.6)	D (49.8)	D (49.9)			
	SB	E (57.6)	F (83.7)	D (51.1)	D (50.2)	D (51.2)	D (51.4)			
	Overall	C (27.5)	D (44.8)	B (11.5)	B (13.6)	B (13.0)	B (18.3)			
Atlanta Hwy. @	EB	C (21.1)	D (35.3)	A (9.8)	B (12.1)	B (12.0)	B (11.1)			
SR 10 Loop SB Ramps	WB	B (18.0)	D (38.6)	A (6.4)	B (12.1)	A (6.8)	B (12.0)			
	SB	D (48.9)	E (70.9)	B (19.5)	B (18.1)	C (20.5)	D (38.4)			
	Overall	B (13.2)	B (12.6)	A (7.5)	A (7.6)	A (7.4)	A (8.5)			
Atlanta Hwy. @	EB	A (5.6)	A (3.7)	A (4.3)	A (4.6)	A (4.4)	A (7.6)			
SR 10 Loop NB Ramps	WB	A (2.7)	A (3.4)	A (5.2)	A (4.5)	A (4.5)	A (2.8)			
	NB	D (52.0)	D (45.7)	C (20.3)	B (19.0)	C (20.4)	B (19.9)			
	Overall	-	-	-	-	-	-			
Atlanta Hwy. @	EB	-	-	-	-	-	-			
Logan's Roadhouse Driveway /	WB	-	-	-	-	-	-			
Jennings Mill Rd.	NB	-	-	-	-	-	-			
	SB	-	-	-	-	-	-			
	Overall	A (0.0)	A (0.1)	<b># (#)</b>	<b># (#)</b>	A (0.0)	A (0.0)			
Atlanta Hwy. @	EB	A (0.0)	A (0.0)	# (#)	# (#)	A (0.0)	A (0.0)			
Logan's Roadhouse Driveway	WB	A (0.0)	A (0.0)	# (#) # (#)	# (#)	A (0.0)	A (0.0)			
	SB	A (0.0)	B (10.7)	# (#)	# (#)	A (0.0)	A (9.0)			
		A (7.0)	A (6.7)	A (7.7)	A (6.0)	B (10.6)	A (0.1)			
Atlanta Hwy. @		A (4.1)	A(3.0)	A (7.2)	A (3.4)	D(10.0)	A (5.0)			
Jennings Mill Rd.	VV D	D(37.4)	(4.0)	(0.0)	(0.3)	(4.7)	$ = \begin{bmatrix} (0,7) \\ (0,2) \end{bmatrix} $			
		$\Delta (0.1)$	$\triangle (0, 4)$		$\triangle (0.1)$	$\Delta (0.1)$	$\triangle (0.1)$			
		B (13 9)	D (37 4)	B (15 2)	D (40 8)	B (13 1)	(0.4)			
	FR	A (4.8)	C (21.5)	A (7.6)	C (31 2)	A (6.2)	C (22 2)			
Atlanta Hwy. @	WB	B (15.8)	D (46 1)	B (19.3)	D (51.8)	B (13.9)	C (32.6)			
Mitchell Bridge Rd. / Timothy Rd.	NB	D (48.4)	E (56.2)	D (41.5)	D (51 0)	D (39.5)	D (44 0)			
	SB	C (26.0)	D (46.1)	C (22.5)	D (38.1)	C (23.5)	D (37.7)			

# **Meeting Minutes**



Project: NH000-0003-03-(053) - Clarke County PI No. 122890 Atlanta Hwy at SR 10 loop

Date: 2-27-2015

Attendees:Anthony Tate, GDOT – PM<br/>Derrick Brown, GDOT D1 – Program Manager<br/>David Olson, GDOT D1 – Traffic<br/>Bobby Dollar, GDOT D1 – Traffic<br/>Brandon Kirby, GDOT OES<br/>Allen Krivsky, Heath and Lineback Engineers<br/>Shawn Fleet, Heath and Lineback Engineers

### Minutes By: Shawn Fleet

A meeting was held February 19, 2015 to discuss the findings of the revised traffic study and to discuss the steps moving forward.

### **Meeting Minutes**

- Shawn started the meeting with a brief description of differences between the two project layout Scenarios.
  - H&L Scenario 3
    - Provides 5 WB and 4 EB lanes through the interchange.
    - Project limits from the Mall Entrance Road to Timothy Road/ Mitchel Bridge Road.
    - Provides a southbound loop entrance ramp to SR 10 Loop from the east.
    - Provides a 2000 ft auxiliary lane on the southbound exit ramp.
  - Athens Clarke County (ACC) Scenario 2 -
    - Provides 3 WB and 2 EB lanes through the interchange.
    - Project limits generally run from Huntington Road to Jennings Mill Road.
    - Provides a left turn movement to Southbound SR 10 Loop from the east.
- Derrick Brown then provided information on the history of the projects.
  - H&L Scenario 3 project had progress into right of way acquisition and final design.
  - During Right of Way acquisition ACC proposed reduced traffic (Based on 2011/2031) and a reduced layout to minimize Right of Way impacts and to provide additional access to properties.
  - o Right of Way acquisition was stopped to study the proposal presented by ACC.
  - GDOT then updated traffic to 2021/2041 and revised the traffic study to re-analyze the no build, the ACC Reduced Scenario 2 and the H&L current design Scenario 3.
- Discussion of the Traffic Study
  - The revised traffic study shows that the ACC Reduced Scenario 2 provides LOS E at both the Huntington Road and the Southbound Entrance Ramp.

NH000-0003-03-(053)- Clarke County , P.I. No.: 122890, SR 10/US 78 (Atlanta Hwy) at SR 10 Loop Interchange Project February 23,2015

Page | 2

- The revised traffic study shows that the H&L Scenario 3 provides LOS D & B for the Huntington Road and the Southbound Entrance Ramp respectively.
- The Loop Ramp provides a significant benefit to the operation of the South Bound Ramp signal. Eliminating the left turn and providing the loop ramp improves the signal operation from a LOS E to LOS B. It was agreed that the South Bound Loop Ramp should be retained.
- Generally it was agreed that the H&L Scenario 3 should be pursued. If GDOT pursues
   H&L Scenario 3, it will likely be met with resistance from the locals.
- A discussion was then initiated to brainstorm options to adjust the H&L Scenario 3 design to accommodate some of the local concerns to provide additional access and reduce Right of Way impacts while still meeting the Need &Purpose/Project Justification and Logical Termini.

The Brainstorm ideas:

- Reduce one through lane in each direction on SR 10 (Atlanta Hwy) on Scenario 3 layout.
- Reduce right turn lanes at west end of project on Scenario 3 layout to reduce property impacts.
- Provide left-in and right- in/right-out only at Publix shopping center drive. Revise full access median opening as shown currently in Scenario 3 (Just east of On the Border restaurant) to right-in/right-out to match the existing configuration at this location.
- H&L will determine reductions to Right of Way impacts. Additional reductions can be made by reducing the shoulder from 16 ft to 10 ft in some areas.

Other Items Discussed:

- Present layout to FHWA meeting on March 4/5<sup>th</sup> to get their input.
- The signal at the Timothy Road/Mitchell Bridge Road fails (LOS F) under both scenarios unless improvements are made to the intersection. This may be an issue in determining the correct Logical Termini. The project description is an interchange improvement project. Project limits have been held at its location to avoid scope creep.

Moving Forward:

• H&L is studying the above items to determine what items provide the best LOS while providing a reduced right of way benefit.

### Attachments:

• H&L Project Layout & Athens-Clark County Project Layout





# **Meeting Minutes**

Project: NH000-0003-03-(053) - Clarke County PI No. 122890 Atlanta Hwy at SR 10 loop Date: 4-20-2015

H & L Project Number: 2008.030.023

Attendees: Derrick Brown, GDOT D1 – Program Manager Anthony Tate, GDOT PM Bobby Dollar, GDOT OES Jennifer Giersch, FHWA; Via Conference Call Larry Overn, Stantec Allen Krivsky, Heath and Lineback Engineers Shawn Fleet, Heath and Lineback Engineers



### Minutes By: Shawn Fleet

Meeting was held at GDOT on April 16, 2015.

Project history was presented as well as a description of the current approved project concept and the reductions to the project that Athens Clark County (ACC) had proposed to reduce impacts to businesses.

The main differences of the project concepts are:

- The ACC Layout project concept reduces lanes on SR 10 and Huntington Road.
- The ACC Layout project limits are just east of Jennings Mill Road and just west of Huntington Road and the H&L layout project limits are from West Mall Access to Timothy Road Mitchell Bridge Road.
- The ACC Layout eliminates the south bound loop Ramp and SR 10 Loop auxiliary lane and eliminates the need to realign the south bound Exit Ramps.
- The ACC Layout eliminates the need to realign the north bound Ramps.

The traffic study results were discussed.

- It was noted that LOS E & Fs were unacceptable.
- The ACC layout shows LOS E at Huntington Road, the SB Ramp and Timothy Road/Mitchell Bridge Road.
- The H&L Layout show LOS E at Timothy Road/Mitchell Bridge Road
- The H&L Layout with improvements to Timothy Road/Mitchell Bridge Road can improve the intersection to LOS D.
- Assume ACC will accept LOS D.

Logical Termini Discussion

- Since Timothy Road/Mitchell Bridge Road intersection requires improvement to operate at an acceptable LOS, the H&L project concept as it stands, which does not propose improvements to the intersection, does not meet Logical Termini.
- ACC Layout does not meet Logical Termini since it excludes improvement to Timothy Road/Mitchell Bridge Road.
- There is an existing project programmed as PI 010100, CR 32 Mitchell Bridge Rd from SR 10/Atlanta Highway to CR 684/Athens West Parkway. Anthony Tate will investigate if this project includes improvements to the Timothy Road/Mitchell Bridge Road Intersection.
- If project PI 010100 does not include improvements to the Timothy Road/Mitchell Bridge Road Intersection, a new project will need to be programmed.

**Environmental Document** 

- A project that includes improvements to the Timothy Road/Mitchell Bridge Road Intersection will need to be added to the environmental document so that Logical Termini requirements can be met. The project does not need to be constructed with the current project.
- GDOT OES will prepare and complete the Project Need, Effectiveness and Logical Termini Form.
- A CE reeval could be completed and approved in 2016.
- Traffic should be good for 2 to 3 years.

Minimization to Commercial Property Impacts

- H&L has proposed to provide a left turn in access to the Publix Shopping Center. See Detail Attached.
- H&L has proposed to reduce impacts to the commercial properties along the western edge of the project.
- A meeting with GDOT District 1 and ACC to discuss impacts, reductions, and the additional project is needed to get ACC's concurrence.

Action Items:

- Anthony Tate to investigate details of project PI 010100.
- H&L to study possible improvements to Timothy Road/Mitchell Bridge Road Intersection and provide a concept layout as a separate project.

# **Meeting Minutes**



Project: NH000-0003-03-(053) - Clarke County PI No. 122890 Atlanta Hwy at SR 10 loop

Date: 6-3-2015

Attendees:Anthony Tate, GDOT – PMDavid Olson, GDOT D1 – District Traffic EngineerJustin Lot, GDOT D1 DesignWarren Dimsdale, Heath and Lineback EngineersShawn Fleet, Heath and Lineback Engineers

### Attendees Via Conference Call:

Derrick Brown, GDOT D1 – Program Manager Brandon Kirby, GDOT D1 Assistant District Engineer

### Minutes By: Shawn Fleet

A meeting was held May 20, 2015 to discuss and review the project layout that has been revised per prior meetings with District 1 and with FHWA.

### **Meeting Minutes**

- Shawn started the meeting with a brief history of the project to date.
- The recent changes to the layout were then discussed.
  - West end reduction to reduce property impacts to business properties. This was done primarily by reducing lane addition lengths, but also included reducing the shoulder widths on both sides of the Atlanta Highway.
  - Left turn access into Publix. This was done by providing a median break large enough only to allow for left in access. The break location and access driveway location was relocated to the western edge of the property to maximize storage and deceleration lengths for the Atlanta Highway E.B. left turn lanes to Mitchell Bridge Road N.B.
  - Improvements to Timothy Road and Mitchell Bridge Road and Intersection.
    - The improvements are required and added to meet Logical Termini Per FHWA.
    - Improvements to the Mitchell Bridge Road side extend out to hold the lane addition 800 ft beyond the intersection then 495 ft to taper the lane drop for a total length of 1295 ft. Improvements were set up to tie into the current improvement project that will be constructed by Athens-Clark County along Mitchell Bridge Road.
    - Two alternates of improvements to the Timothy Road side were presented. The first showed improvement with desirable taper rates (15:1) and decel/storage (400ft/150ft) lengths per GDOT Standard. The second showed minimum taper rates (8.33:1) and decel/storage (250ft/150ft) lengths per GDOT Standard. The group decided the alternate that met the minimum design requirements along Timothy Road should be implemented to reduce impacts and improve property access.

- The additional work on Timothy Road / Mitchell Bridge Road would increase the construction cost of the project approximately \$2 million.
- The speed limit on Timothy Road / Mitchell Bridge Road is 45 MPH. The improvement proposed for the intersection are to meet 35 MPH to minimize impacts to properties. The layout also illustrated the additional impacts for 45 MPH. It was agreed that 35 MPH should be used and that a design exception should be submitted for the reduction in speed for approval.
- Derrick noted the GDOT SMEs should review and approve the layout limits along Timothy Road / Mitchell Bridge Road.

Additional General Layout and Project Comments

- Brandon Kirby noted that if the Interchange Ramp's pavement are to be concrete that the shoulder slopes should match the travel lane cross slope to allow for future widening if needed.
- Investigate reducing the dual right turn lanes to a single right lane on Huntington Road to east bound Atlanta Highway.
- David Olson noted overhead signs will be required on Timothy Road north bound due to the existing thru travel lane becoming the inside left turn lane for the proposed intersection.
- The Publix access driveway along Mitchel Bridge Road will need to be converted to right in right out. It was also requested to investigate adding a small raised median to discourage left turns into and out of the Publix entrance along Mitchel Bridge Road. However, it was determined no median could be added there due to the fire station driveway across the street.
- David Olson likes that the left lane progresses all the way through the project on Atlanta Highway.
- David Olson requested the striping to be revised to provide left turn access to Coile Drive.
- It was requested to increase the concrete island sizes at the Timothy Road / Mitchell Bridge Road intersection.
- It was requested to correct the marking on the south bound exit ramp where the two lanes expand to the right and left turn lanes.
- Revise the marking for the Olive Garden access driveway across from Jennings Mill Road to provide a left turn out and a thru/right out and a single inbound lane.
- David Olson requested us to review the possible weaving problems that could occur due to the north bound exit ramp right turn lane crossing the right turn lane for Jennings Mill Road.
- David Olson requested us to review the possible weaving problems at the lane additions near Arrowhead Road.

Right of Way

• It was requested to remove the driveway just west of JMR into the Logans Road House restaurant. This driveway access was provided per Right of Way request since it would require an agreement between property owners for access to the property.

The next step is present the revised project layout to Athens Clarke County.

### Attachments:

• H&L Project Layout & Athens-Clark County Project Layout

### **Shawn Fleet**

From: Sent: To: Cc: Subject: Shawn Fleet Tuesday, July 21, 2015 1:49 PM William A. Krivsky sfleet@heath-lineback.com FW: PI# 122890 Clarke - Today's Meeting Synopsis

Abby Ebodaghe and David Clarke's response to the meeting on the traffic projections.

Shawn C. Fleet, P.E., Heath & Lineback Engineers, Inc. sfleet@heath-lineback.com www.heath-lineback.com

From: David.Clark@athensclarkecounty.com [mailto:David.Clark@athensclarkecounty.com] Sent: Thursday, July 02, 2015 4:14 PM To: Tate, Anthony Cc: Ebodaghe, Abby; Brown, Derrick M.; Woods, Leslie; Shawn Fleet Subject: Re: PI# 122890 Clarke - Today's Meeting Synopsis

Anthony:

Thank you again for arranging the meeting yesterday and your continued efforts in moving this project forward.

One point that I hope that I left with GDOT staff yesterday is that ACC is very appreciative of the work completed to date - especially the proposed improvements identified for the Mitchell Bridge/Timothy Road intersection. In general, ACC remains supportive for improving the interchange to better accommodate today's and the future traffic. Everyone would agree that the current traffic volumes through the interchange has long exceeded the existing capacity of the interchange's configuration and that improvements are needed.

We just want to be sure that we build a project that is the "right size" for the future conditions. I understand that we probably differ in what we believe the future will have in store for the corridor.

I appreciate the additional investigation and review that Abby & Leslie (and the rest of the GDOT Planning staff) has offered to undertake. If there is any additional local information that they might need, please have them contact me directly.

Hope you have a happy and safe July 4th weekend.

-David

From: Tate, Anthony [mailto:atate@dot.ga.gov]
Sent: Thursday, July 02, 2015 1:25 PM
To: Ebodaghe, Abby; Shawn Fleet; Woods, Leslie; Clark, David
Cc: Brown, Derrick M.
Subject: RE: PI# 122890 Clarke - Today's Meeting Synopsis

Thanks for the update.

### **Anthony Tate**

Project Manager Office of Program Delivery 600 West Peachtree Street, 25<sup>th</sup> Floor Atlanta, Georgia 30308 Phone: (404) 631-1769 Cell: (404) 807-7692 Email: <u>atate@dot.ga.gov</u>

From: Ebodaghe, Abby
Sent: Thursday, July 02, 2015 12:39 PM
To: Tate, Anthony; Shawn Fleet; Woods, Leslie; Clark, David
Cc: Brown, Derrick M.
Subject: RE: PI# 122890 Clarke - Today's Meeting Synopsis

### Anthony,

Update for Design Traffic: We are reviewing the Existing volumes & projections on Huntington Road. We will send updated numbers as soon as it is completed.

### THANK YOU!

CHEERS, ABBY F. EBODAGHE OFFICE OF PLANNING 5<sup>TH</sup> FLOOR, ONE GEORGIA CENTER (404) 631-1923 OFFICE (404) 631-1957 FAX JOH 14:13-14 JOH 14:559

From: Tate, Anthony
Sent: Wednesday, July 01, 2015 3:06 PM
To: Shawn Fleet; Ebodaghe, Abby; Woods, Leslie; Clark, David
Cc: Brown, Derrick M.
Subject: PI# 122890 Clarke - Today's Meeting Synopsis

Quick synopsis of today's meeting:

- David Clark (ACC) discussed his concerns with the previously provided traffic projections based upon the current economic trends in the area.
- Mr. Clark also expressed concerns about the proposed 10-lane bridge and the possible ROW impacts along the south side of the outer-loop portion of the project, and the negative impact the larger scale transportation project could have on existing businesses in that vicinity.
- Abby & Leslie (GDOT Planning) reviewed the traffic data in the area, drove around the corridor yesterday to investigate, and feel that the previously determined traffic projections are valid.
- After some debate, Derrick stated that we will have to move forward based upon the GDOT projections.
  - Abby indicated that she would review her data this afternoon, but was certain that it wouldn't warrant ACC's proposed 0.5% growth.

Action Item:

• Heath & Lineback: Review your latest concept sketch and look to minimize ROW impacts along the southern portion of that outer loop corridor as much as possible.

Feel free to respond with any questions or concerns.

Thanks,

# **Anthony Tate**

Project Manager Office of Program Delivery 600 West Peachtree Street, 25<sup>th</sup> Floor Atlanta, Georgia 30308 Phone: (404) 631-1769 Cell: (404) 807-7692 Email: <u>atate@dot.ga.gov</u>

Traffic fatalities are on the rise since the beginning of 2015 and Georgia could see the first increase in nine years! Many of these fatalities are the result of distracted driving. DriveAlert ArriveAlive implores motorists to drive responsibly. 1—buckle up; 2—stay off the phone/no texting; and 3—drive alert. Visit <u>www.dot.ga.gov/DS/SafetyOperation/DAAA</u>. #ArriveAliveGA

### **Shawn Fleet**

From:	Olson, David W <dolson@dot.ga.gov></dolson@dot.ga.gov>
Sent:	Tuesday, August 18, 2015 11:53 AM
To:	Shawn Fleet; Tate, Anthony; Brown, Derrick M.
Cc:	Lott, Justin; Kirby, Brandon; William A. Krivsky
Subject:	RE: NH000-0003-03(053), P. I. No. 122890, Clarke County
Cc: Subject:	Lott, Justin; Kirby, Brandon; William A. Krivsky RE: NH000-0003-03(053), P. I. No. 122890, Clarke County

I support Scenario 4. It includes the refinements from discussions in several meetings to improve operations while reducing right-of-way impacts. Scenario 2 does not provide adequate LOS for certain movements and does not meet logical termini. Scenario 3 had more lanes than necessary, creating weaving situations and other potential operational impacts that would have detracted from theoretical LOS improvements.

David W. Olson, PE District Traffic Engineer

Georgia Department of Transportation District 1, Gainesville, GA (770) 531-5806 *office* (678) 677-6078 *mobile* <u>dolson@dot.ga.gov</u>

From: Shawn Fleet [mailto:sfleet@heath-lineback.com]
Sent: Wednesday, August 12, 2015 3:12 PM
To: Tate, Anthony; Brown, Derrick M.
Cc: Olson, David W; Lott, Justin; Kirby, Brandon; William A. Krivsky
Subject: FW: NH000-0003-03(053), P. I. No. 122890, Clarke County

Anthony, Gentlemen,

Please see the revised expanded traffic analysis summary table showing all legs of the intersections per the reduced traffic data. The chart does show that the ACC layout produces LOS Es and Fs for certain movements in the Huntington Road, Southbound Ramp and Mitchell Bridge/Timothy Road Intersections. Please review the results and let us know your thoughts on if these values are acceptable?

Scenario 2 is the original ACC Layout Scenario 3 is the original H&L/GDOT Layout Scenario 4 is a new layout that was developed to reduce a lane across but does includes the Timothy/Mitchell Bridge Road Improvement.

Scenario 2 & 3 shown do not include Timothy/Mitchell Bridge Road Improvements.

Thanks,

Shawn C. Fleet, P.E., Heath & Lineback Engineers, Inc. 770.424.1668 <u>sfleet@heath-lineback.com</u> www.heath-lineback.com