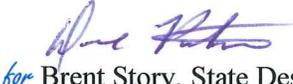


**DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA**

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

**FILE** P.I. # 0008751 **OFFICE** Design Policy & Support  
CSBRG-0008-00(751)  
Fulton County  
GDOT District 7 - Metro Atlanta **DATE** 10/7/2013  
CR 79/Parsons Road Bridge Replacement  
@ Johns Creek

**FROM**  Brent Story, State Design Policy Engineer

**TO** SEE DISTRIBUTION

**SUBJECT** **APPROVED REVISED CONCEPT REPORT**

Attached is the approved Revised Concept Report for the above subject project.

Attachment

**DISTRIBUTION:**

Bobby Hilliard, Program Control Administrator  
Genetha Rice-Singleton, State Program Delivery Engineer  
Glenn Bowman, State Environmental Administrator  
Cindy VanDyke, State Transportation Planning Administrator  
Ben Rabun, State Bridge Engineer  
Kathy Zahul, State Traffic Engineer  
Angela Robinson, Financial Management Administrator  
Lisa Myers, State Project Review Engineer  
Charles "Chuck" Hasty, State Materials Engineer  
Mike Bolden, State Utilities Engineer  
Jeff Fletcher, Statewide Location Bureau Chief  
Andy Casey, State Roadway Design Engineer  
Attn: Mac Cranford, District 7 Design Engineer  
Rachel Brown, District 7 Engineer  
Scott Lee, District 7 Preconstruction Engineer  
Patrick Allen, District 7 Utilities Engineer  
Merishia Robinson, Project Manager  
BOARD MEMBER - 6th Congressional District

**DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA  
REVISED PROJECT CONCEPT REPORT**

Project Type: <u>Bridge Replacement</u>	P.I. Number: <u>0008751</u>
GDOT District: <u>7</u>	County: <u>Fulton</u>
Federal Route Number: <u>N/A</u>	State Route Number: <u>N/A</u>
Project Number: <u>CSBRG-0008-00(751)</u>	City Route Number: <u>79</u>

Project PI. # 0008751 will replace the bridge on CS 79/Parsons Road over Johns Creek. The proposed bridge will be 52 ft. - 11 in. by 120 ft. consisting of two 11 ft. travel lanes, one 11 ft. left turn lane, 2 ft. gutter and a 5.5 ft. sidewalk on the south side, a 2 ft. shoulder and a 8 ft. multi-use trail on the north side. The proposed change is to add the 8 ft. multi-use trail on the north side. This change will enhance the connectivity of City Johns Creek long-term plan for the use of trails throughout the City.

**Submitted for approval:**

<u>Mac Crawford</u> District Seven Design Engineer	<u>8/11/13</u> DATE
<u>Wendy Robinson</u> GDOT Project Manager	<u>8/12/13</u> DATE
<u>Donna Rice, S.P.</u> State Program Delivery Engineer	<u>8/16/2013</u> DATE

**Recommendation for approval:**

<u>GLENN BOWMAN*/EKP</u> State Environmental Administrator	<u>8/26/2013</u> DATE
<u>KATHY ZAHUL*/EKP</u> State Traffic Engineer	<u>8/27/2013</u> DATE
<u>BEN RABUN*/EKP</u> State Bridge Design Engineer	<u>9/9/2013</u> DATE

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).

<u>CINDY VANDYKE*/EKP</u> State Transportation Planning Administrator	<u>9/17/2013</u> DATE
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*\* - RECOMMENDATION ON FILE*

## PLANNING, APPROVED CONCEPT, & BACKGROUND DATA

**Project Justification Statement:** CS 79/Parsons Road is a two-lane, undivided urban collector street with intermittent sidewalks located between SR 141/Medlock Bridge Road and SR 120/Abbotts Bridge Road in the City of Johns Creek, Fulton County, Georgia. The posted speed limit is 35 mph. This location is on a school bus route, according to the Department’s Bridge Inventory. The existing urban roadway consists of two 12 foot travel lanes with variable width grass shoulders. The current (2010) AADT on Parsons Road is 4,700 vehicles per day; this roadway is currently operating at level-of-service “C”. By the design year (2035) AADT is projected to increase to 7,000 vehicles per day and LOS is projected to remain “C”. The current and future projected level-of-service represents acceptable traffic conditions without improvements.

There is a proposed project in the vicinity of the bridge project. This project will be an intersection improvement for Abbotts Bridge Road at Medlock Bridge Road. Thus, the bridge project is a standalone project with independent utility and logical termini. The proposed project length is approximately 950 feet (0.180 miles), beginning at M.P. 1.425 and extending to M.P. 1.605.

Existing development in this area is mostly single family residential with some institutional uses nearby. According to the Future Development Map in the Comprehensive Plan, the City aims to retain the single-family character of the area in the future. The existing bridge has no bicycle or pedestrian facilities. Parsons Road has intermittent sidewalks in some locations near residential neighborhoods.

This Bridge (Structure ID 121-5022-0) was built in 1964 with 3 – 30’-0” waffle panel spans on concrete caps with metal shell piles. The bridge is currently posted from 10 to 18 tons and has a Sufficiency Rating of 29.57. The waffle panels in Span 2 between panels 1 and 2 and Span 3 between panels 7 and 8 are not bolted together. The waffle panels show minor cracking in the bottom of all panels. Replacement of this structurally deficient bridge is recommended.

**Description of the approved concept:** The proposed project will be the replacement of an existing bridge (ID. # 121-5022-0) on Parsons Road over Johns Creek located in the City of Johns Creek. The proposed bridge will be 45 ft. – 2 in. by 120 ft. consisting of two 11 ft. travel lanes, one 11 ft. left turn lane, 2 ft. gutter, a 5.5 ft. sidewalk on the south side and a 2 ft. gutter on the north side and a 30 ft. approach slab. Also, the proposed bridge will be 2.85 ft. higher than the existing bridge per the hydraulic study.

**PDP Classification:**     Major                       Minor

**Federal Oversight:**     Full Oversight     Exempt     State Funded     Other

**Projected Traffic as shown in the approved Concept Report:** AADT

Open Year (2015): 5,200

Design Year (2035): 7,000

**Functional Classification (Mainline):** Urban Minor Collector

**VE Study anticipated:**     No                       Yes                       Completed – Date:

## PROPOSED REVISIONS

Approved Features:	Proposed Features:
<p>The approved project consisted of the replacement of an existing bridge (ID. # 121-5022-0) on Parsons Road over Johns Creek located in the City of Johns Creek. The proposed bridge was 45 ft. – 2 in. by 120 ft. consisting of two 11 ft. travel lanes, one 11 ft. left turn lane, 2 ft. gutter, a 5.5 ft. sidewalk on the south side and a 2 ft. gutter on the north side and a 30 ft. approach slab.</p> <ul style="list-style-type: none"> <li>Proposed bridge typical section: two 11- ft. travel lanes, one 11-ft left turn lane, 2-ft gutter, a 5.5-ft sidewalk on the south side, a 2 ft. shoulder on the north side.</li> <li>Proposed roadway typical section: two 11-ft travel lanes, one 11-ft left turn lane, one 11-ft right turn lane, a 2-ft grass strip on the south side, a 5-ft sidewalk on the south side and a 2-ft grass strip on the north side.</li> </ul>	<p>The new proposed project will consist of the replacement of an existing bridge (ID. # 121-5022-0) on Parsons Road over Johns Creek located in the City of Johns Creek. The new proposed bridge will be 52 ft. – 11 in. by 120 ft. consisting of two 11 ft. travel lanes, one 11 ft. left turn lane, 2 ft. gutter, a 5.5 ft. sidewalk on the south side and a 2 ft. gutter &amp; 8 ft. trail on the north side, and a 30 ft. approach slab.</p> <ul style="list-style-type: none"> <li>Proposed bridge typical section: two 11- ft. travel lanes, one 11-ft left turn lane, 2-ft gutter, a 5.5-ft sidewalk on the south side, a 2 ft. shoulder and a 8-ft multi-use trail on the north side.</li> <li>Proposed roadway typical section: two 11-ft travel lanes, one 11-ft left turn lane, one 11-ft right turn lane, a 2-ft grass strip on the south side, a 5-ft sidewalk on the south side and a 2-ft grass strip and a 8-ft multi-use trail on the north side.</li> </ul>
<p><b>Reason(s) for change:</b> The City of Johns Creek requested both a 5 ft. sidewalk and 8 ft. multi-use trail across the new bridge and along Parsons Road as part of the City’s Future Sidewalk and Trail Plan.</p>	

## ENVIRONMENTAL

### Project Air Quality:

- Is the project located in a PM 2.5 Non-attainment area?  No  Yes  
 Is the project located in an Ozone Non-attainment area?  No  Yes  
 Is a Carbon Monoxide hotspot analysis required?  No  Yes

The referenced project is contained within the RTP/TIP/STIP as TIP # FN-252 and P. I. # 008751. The proposed project consists of a bridge replacement and does not add capacity.

**Potential environmental impacts of proposed revision:** There are no significant environmental impacts that will be caused due to the proposed revisions.

**Have proposed revisions been reviewed by environmental staff?**  No  Yes

**Environmental responsibilities (Studies/Documents/Permits):** GDOT

**Environmental impacts by section**

**NEPA:** The NEPA document will need to be reevaluated due to the slightly larger footprint of the project per the addition of the 8 ft. trail.

**Ecology:** The stream buffer will not be affected on the northside of the bridge and no additional survey will be required as a result. In addition, there will be no effects to the species and their habitats, streams etc. or to the project schedule.

**Archeology:** No archeological resources to be affected.

**History:** No historic resources to be affected.

**Air & Noise:** No additional impact as a result of the revision.

**Public Involvement:** No additional public outreach will be required as a result of the revision.

**PROJECT COST & ADDITIONAL INFORMATION**

Updated Cost Estimate		Date of Estimate
Base Construction Cost:	\$1,307,809.62	7/26/2013
Engineering and Inspection:	\$65,390.48	
Liquid AC Adjustment:	\$41,742.92	8/26/2013
<u>Total Construction Cost:</u>	\$1,414,943.02	
Right-of-Way:	\$430,000.00	AUTHORIZED
Utilities (reimbursable costs):		
Environmental Mitigation:		
<b>TOTAL PROJECT COST:</b>	<b>\$1,844,943.02</b>	

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

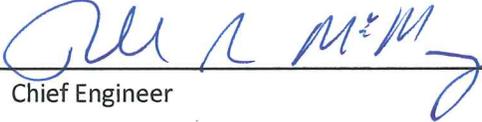
**Comments:** None.

**Attachments:**

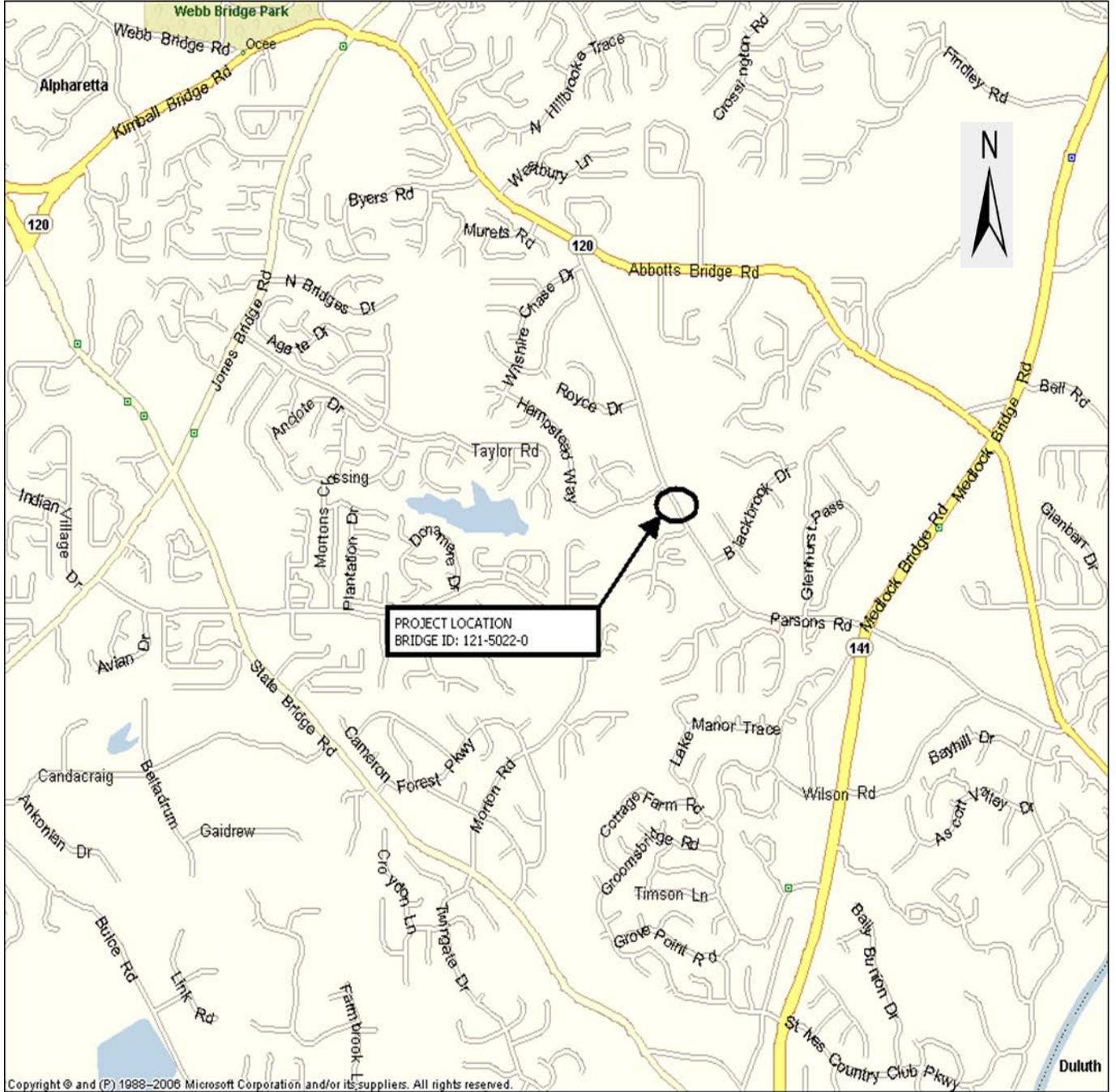
1. Sketch map
2. Cost Estimate(s)
3. Typical Sections
4. Project Layout
5. HSM Analysis

**APPROVALS**

Concur:  9/24/2013  
Director of Engineering

Approve:  10/2/13  
Chief Engineer Date

# Location Map



# DETAILED COST ESTIMATE



**Job: 0008751 JH**

JOB NUMBER 0008751\_JH

FED/STATE PROJECT NUMBER CSBRG-0008-00(751)

SPEC YEAR: 01

DESCRIPTION: ESTIMATE FOR PARSONS ROAD @ JOHNS CREEK

**ITEMS FOR JOB 0008751\_JH**

**10 - ROADWAY**

Line Number	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0003	150-1000	1.000	LS	\$25,000.00000	TRAFFIC CONTROL - CSBRG-0008-00(751)	\$25,000.00
0029	167-1000	2.000	EA	\$147.09073	WATER QUALITY MONITORING AND SAMPLING	\$294.18
0024	167-1500	12.000	MO	\$407.32402	WATER QUALITY INSPECTIONS	\$4,887.89
0009	210-0100	1.000	LS	\$100,000.00000	GRADING COMPLETE - CSBRG-0008-00(751)	\$100,000.00
0039	310-1101	3109.000	TN	\$19.28935	GR AGGR BASE CRS, INCL MATL	\$59,970.59
0014	402-3103	312.000	TN	\$66.66000	REC AC 9.5 MM SP,TPII,GP2, INCL BM & H L	\$20,797.92
0019	402-3121	1665.000	TN	\$65.86006	RECYL AC 25MM SP,GP1/2,BM&HL	\$109,657.00
0034	402-3190	416.000	TN	\$79.90874	RECYL AC 19 MM SP,GP 1 OR 2 ,INC BM&HL	\$33,242.04
0044	413-1000	264.000	GL	\$3.67072	BITUM TACK COAT	\$969.07
0049	433-1100	347.000	SY	\$143.38085	REF CONC APPR SL/INCL CURB	\$49,753.15
0054	441-0014	182.000	SY	\$28.58000	DRIVEWAY CONCRETE, 4 IN TK	\$5,201.56
0064	441-0104	347.000	SY	\$33.37379	CONC SIDEWALK, 4 IN	\$11,580.71
0068	441-0106	675.000	SY	\$29.21839	CONC SIDEWALK, 6 IN	\$19,722.41
0069	441-0108	80.000	SY	\$43.58124	CONC SIDEWALK, 8 IN	\$3,486.50
0084	441-4020	99.000	SY	\$33.98364	CONC VALLEY GUTTER, 6 IN	\$3,364.38
0074	441-6012	2136.000	LF	\$7.87509	CONC CURB & GUTTER/ 6"X24"TP2	\$16,821.19
0079	441-6718	331.000	LF	\$19.33000	CONC CURB & GUTTER,6"X24",TP 7	\$6,398.23
0059	444-1000	107.000	LF	\$3.23753	SAWED JTS IN EXIST PVMTS - PCC	\$348.42
0089	446-1100	174.000	LF	\$6.58257	PVMT REF FAB STRIPS, TP2,18 INCH WIDTH	\$1,145.37
0099	634-1200	10.000	EA	\$106.88154	RIGHT OF WAY MARKERS	\$1,068.82
0104	641-1100	146.000	LF	\$48.18689	GUARDRAIL, TP T	\$7,035.29
0109	641-1200	685.000	LF	\$17.14616	GUARDRAIL, TP W	\$11,745.12
0114	641-5001	6.000	EA	\$613.83705	GUARDRAIL ANCHORAGE, TP 1	\$3,683.02
0119	641-5012	4.000	EA	\$1,840.54512	GUARDRAIL ANCHORAGE, TP 12	\$7,362.18
0094	643-8200	400.000	LF	\$1.48549	BARRIER FENCE (ORANGE), 4 FT	\$594.20
<b>SUBTOTAL FOR ROADWAY:</b>						<b>\$504,127.24</b>

**20 - DRAINAGE**

Line Number	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0124	550-1180	385.000	LF	\$38.18982	STM DR PIPE 18",H 1-10	\$14,703.08
0129	550-4118	2.000	EA	\$324.63792	FLARED END SECT 18 IN, SIDE DR	\$649.28
0134	603-2024	314.000	SY	\$39.13529	STN DUMPED RIP RAP, TP 1, 24"	\$12,288.48
0139	603-2180	24.000	SY	\$42.20793	STN DUMPED RIP RAP, TP 3, 12"	\$1,012.99
0144	603-7000	338.000	SY	\$3.07016	PLASTIC FILTER FABRIC	\$1,037.71
0149	668-1100	8.000	EA	\$2,230.78963	CATCH BASIN, GP 1	\$17,846.32
<b>SUBTOTAL FOR DRAINAGE:</b>						<b>\$47,537.86</b>

# DETAILED COST ESTIMATE



Job: 0008751\_JH

**30 - BRIDGE**

Line Number	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0154	540-1101	1.000	LS	\$64,300.00000	REM OF EX BR, STA NO - STA. 19+44.00 - STA. 20+64.00	\$64,300.00
0159	543-9000	1.000	LS	\$643,000.00000	CONSTR OF BRIDGE COMPLETE - CSBRG-0008-00(751)	\$643,000.00
<b>SUBTOTAL FOR BRIDGE:</b>						<b>\$707,300.00</b>

**40 - EROSION CONTROL**

Line Number	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0164	163-0232	1.000	AC	\$395.22776	TEMPORARY GRASSING	\$395.23
0169	163-0240	100.000	TN	\$183.71672	MULCH	\$18,371.67
0174	163-0300	2.000	EA	\$1,192.99060	CONSTRUCTION EXIT	\$2,385.98
0179	163-0550	8.000	EA	\$116.20475	CONS & REM INLET SEDIMENT TRAP	\$929.64
0184	165-0030	1525.000	LF	\$0.75658	MAINT OF TEMP SILT FENCE, TP C	\$1,153.78
0189	165-0101	2.000	EA	\$601.80718	MAINT OF CONST EXIT	\$1,203.61
0194	165-0105	8.000	EA	\$33.50144	MAINT OF INLET SEDIMENT TRAP	\$268.01
0199	171-0030	3049.000	LF	\$2.63207	TEMPORARY SILT FENCE, TYPE C	\$8,025.18
0204	700-6910	1.000	AC	\$705.33519	PERMANENT GRASSING	\$705.34
0209	700-7000	1.000	TN	\$113.87035	AGRICULTURAL LIME	\$113.87
0214	700-8000	2.000	TN	\$825.44116	FERTILIZER MIXED GRADE	\$1,050.88
0219	700-8100	100.000	LB	\$2.11668	FERTILIZER NITROGEN CONTENT	\$211.67
0224	700-9300	103.000	SY	\$6.29713	SOD	\$648.60
0229	716-2000	1824.000	SY	\$0.88180	EROSION CONTROL MATS. SLOPES	\$1,608.40
<b>SUBTOTAL FOR EROSION CONTROL:</b>						<b>\$37,071.86</b>

**50 - SIGNING & MARKING**

Line Number	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0234	636-1020	61.000	SF	\$14.95491	HWY SGN,TP1MAT,REFL SH TP3	\$912.25
0239	636-2070	135.000	LF	\$8.62729	GALV STEEL POSTS, TP 7	\$1,164.68
0244	653-0120	4.000	EA	\$92.35746	THERM PVMT MARK, ARROW, TP 2	\$369.43
0249	653-1501	2525.000	LF	\$0.66265	THERMO SOLID TRAF ST 5 IN, WHI	\$1,673.19
0254	653-1502	2480.000	LF	\$0.66784	THERMO SOLID TRAF ST, 5 IN YEL	\$1,656.24
0259	653-1704	29.000	LF	\$5.14146	THERM SOLID TRAF STRIPE,24",WH	\$149.10
0264	653-1804	391.000	LF	\$2.23468	THERM SOLID TRAF STRIPE, 8",WH	\$873.76
0269	653-3501	274.000	GLF	\$0.52274	THERMO SKIP TRAF ST, 5 IN, WHI	\$143.23
0274	653-6004	10.000	SY	\$4.92591	THERM TRAF STRIPING, WHITE	\$49.26
0279	653-6006	374.000	SY	\$3.96871	THERM TRAF STRIPING, YELLOW	\$1,484.30
0284	654-1001	48.000	EA	\$5.43593	RAISED PVMT MARKERS TP 1	\$260.92
0289	654-1003	17.000	EA	\$5.13159	RAISED PVMT MARKERS TP 3	\$87.24
0299	657-1054	120.000	LF	\$8.69517	PRF PL SD PVMT MKG,5",WH,TP PB	\$1,043.42
0294	657-5017	2.000	EA	\$558.31719	PRF PL PVT MKG,ARW TP2,WH,TPPB	\$1,116.63
0304	657-6054	120.000	LF	\$6.57507	PRF PL SD PVMT MKG,5",YW,TP PB	\$789.01
<b>SUBTOTAL FOR SIGNING &amp; MARKING:</b>						<b>\$11,772.66</b>

**TOTALS FOR JOB 0008751\_JH**

# DETAILED COST ESTIMATE



Job: 0008751\_JH

ITEMS COST:	\$1,307,809.62
COST GROUP COST:	\$0.00
ESTIMATED COST:	\$1,307,809.62
CONTINGENCY PERCENT:	0.00
ENGINEERING AND INSPECTION:	0.05
ESTIMATED COST WITH CONTINGENCY AND E&I:	\$1,373,200.10

PROJ. NO.  
P.I. NO.  
DATE

CSBRG-0008-00(751)  
0008751  
8/26/2013

CALL NO.

INDEX (TYPE)	DATE	INDEX
REG. UNLEADED	Aug-13	\$ 3.486
DIESEL		\$ 3.857
LIQUID AC		\$ 576.00

Link to Fuel and AC Index:  
<http://www.dot.ga.gov/doingbusiness/Materials/Pages/asphaltcementindex.aspx>

**LIQUID AC ADJUSTMENTS**

PA=[((APM-APL)/APL)]xTMTxAPL

**Asphalt**

Price Adjustment (PA)				<b>41351.04</b>	\$	<b>41,351.04</b>
Monthly Asphalt Cement Price month placed (APM)	Max. Cap	60%	\$	921.60		
Monthly Asphalt Cement Price month project let (APL)			\$	576.00		
Total Monthly Tonnage of asphalt cement (TMT)				119.65		

ASPHALT	Tons	%AC	AC ton
Leveling		5.0%	0
12.5 OGFC		5.0%	0
12.5 mm		5.0%	0
9.5 mm SP	312	5.0%	15.6
25 mm SP	1665	5.0%	83.25
19 mm SP	416	5.0%	20.8
	<b>2393</b>		<b>119.65</b>

**BITUMINOUS TACK COAT**

Price Adjustment (PA)				\$	<b>391.88</b>	\$	<b>391.88</b>
Monthly Asphalt Cement Price month placed (APM)	Max. Cap	60%	\$	921.60			
Monthly Asphalt Cement Price month project let (APL)			\$	576.00			
Total Monthly Tonnage of asphalt cement (TMT)				1.133906643			

Bitum Tack

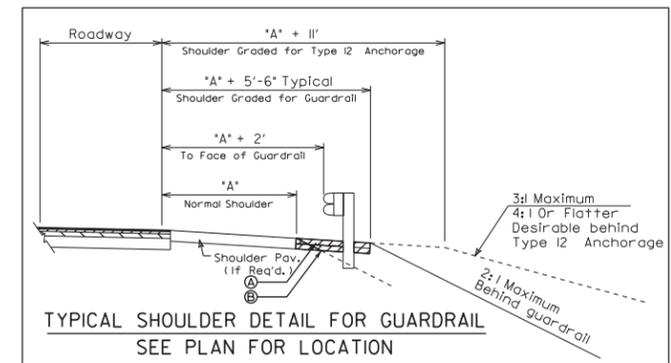
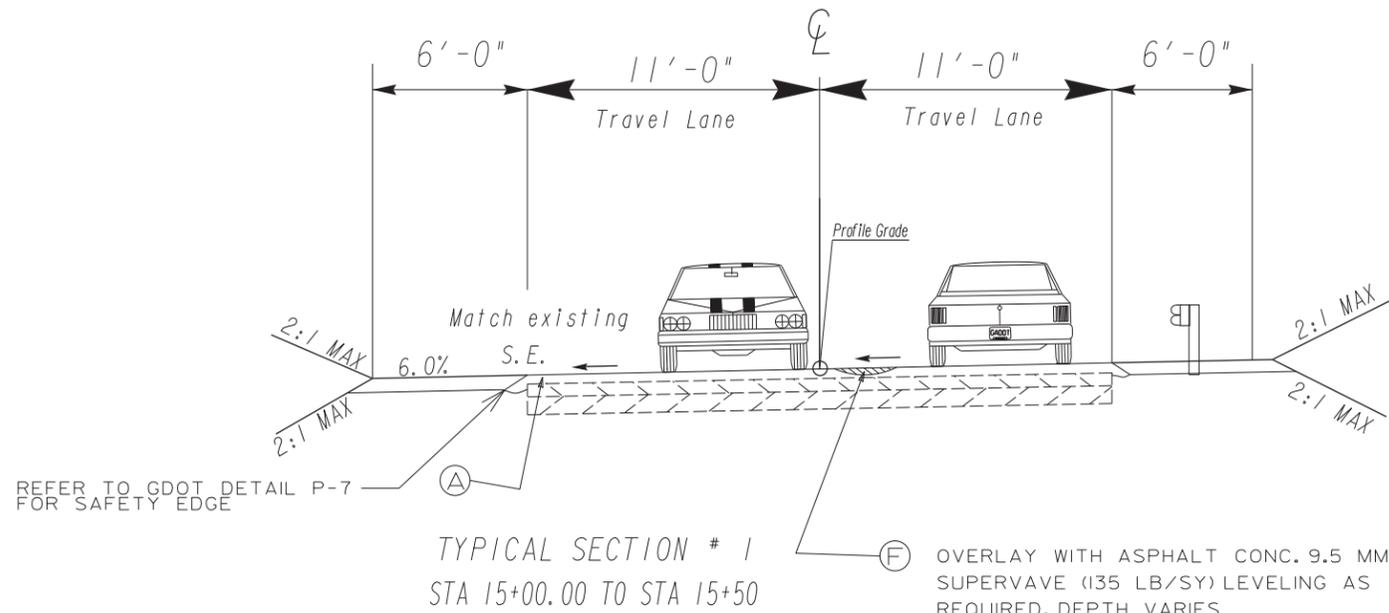
Gals	gals/ton	tons
264	232.8234	1.13390664

**BITUMINOUS TACK COAT (surface treatment)**

Price Adjustment (PA)				<b>0</b>	\$	<b>-</b>
Monthly Asphalt Cement Price month placed (APM)	Max. Cap	60%	\$	921.60		
Monthly Asphalt Cement Price month project let (APL)			\$	576.00		
Total Monthly Tonnage of asphalt cement (TMT)				0		

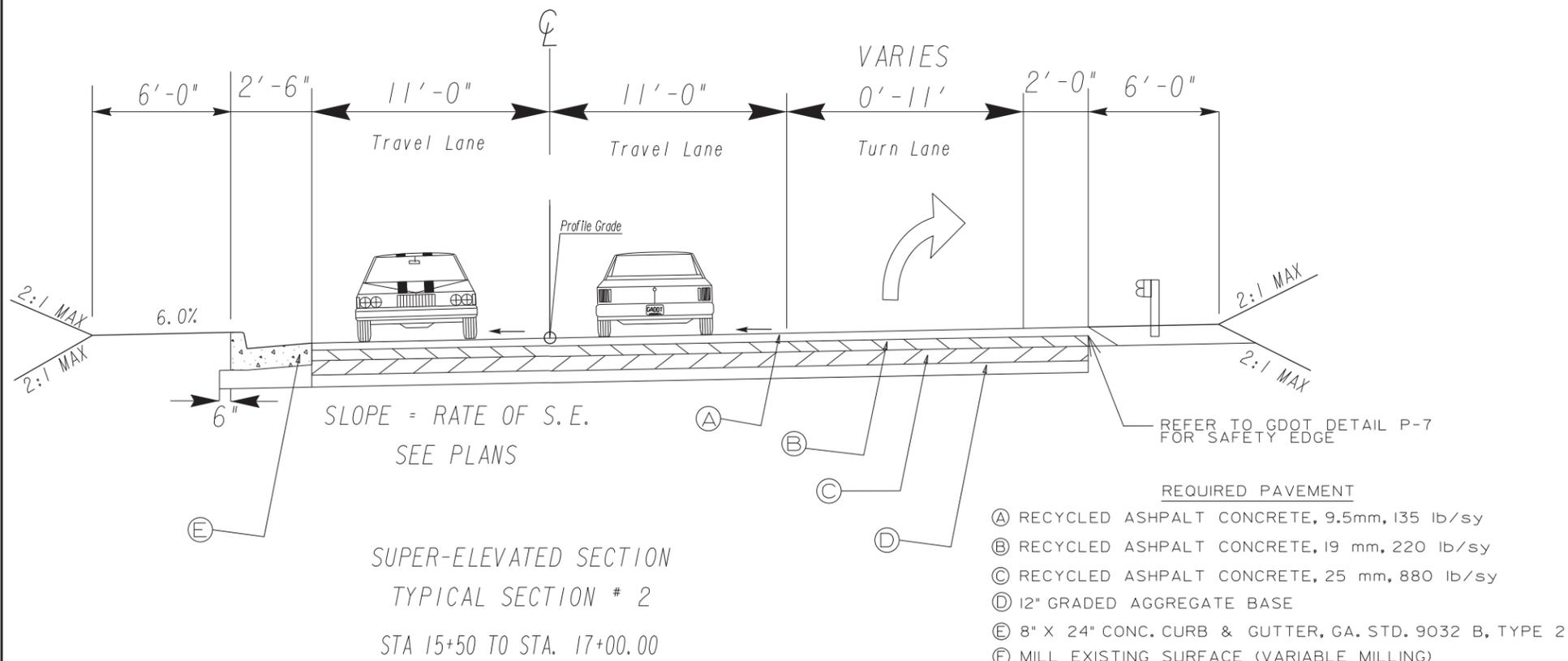
Bitum Tack	SY	Gals/SY	Gals	gals/ton	tons
Single Surf. Trmt.		0.20	0	232.8234	0
Double Surf. Trmt.		0.44	0	232.8234	0
Triple Surf. Trmt		0.71	0	232.8234	0
					0

**TOTAL LIQUID AC ADJUSTMENT** \$ **41,742.92**

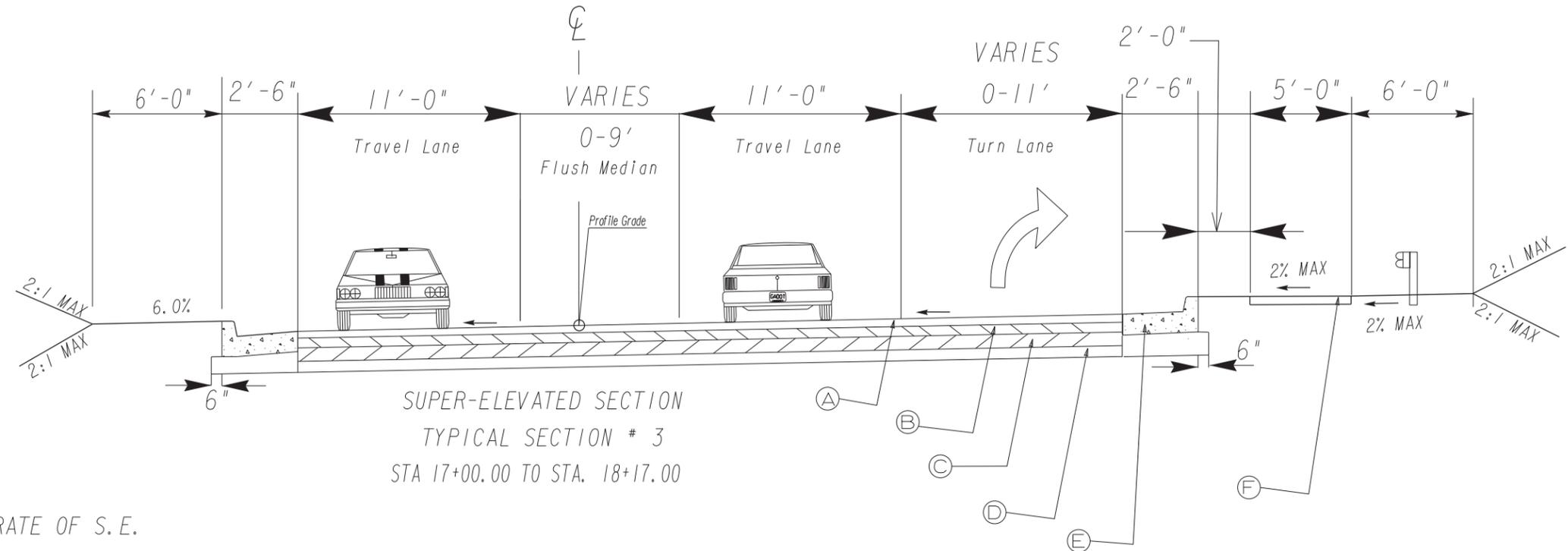


PAVEMENT DESIGN		
SYMBOL	PAVEMENT SYMBOLS LEGEND DESCRIPTION	
A	RECYCLED ASPH CONC 9.5 MM SUPERVAVE, GP 2 ONLY, INCL BITUM MATL & H LIME	135 LB/SY
B	RECYCLED ASPH CONC 19 MM SUPERVAVE, GP 1 OR 2 INCL BITUM MATL & H LIME	220 LB/SY

SLOPE CONTROLS		
SLOPE	CUT	FILL
4:1	0'-6"	0'-10"
2:1	OVER 10'	OVER 10'



ALLOWABLE RANGES TABLE	
FOR THIS PROJECT, CROSS SLOPES THAT ARE ADJUSTED TO "BEST FIT" EXISTING PAVEMENT SLOPES ARE SUBJECT TO THE FOLLOWING LIMITS:	
A. NORMAL CROWN	
SECTION WITH GRADES 0.5% OR GREATER	SECTION WITH GRADES LESS THAN 0.5%
0.0150 FT/FT - MINIMUM 0.0208 FT/FT - DESIRABLE 0.0250 FT/FT - MAXIMUM	0.0156 FT/FT - MINIMUM 0.0208 FT/FT - DESIRABLE 0.0300 FT/FT - MAXIMUM
B. SUPERELEVATION RATE S.E. RATE SHOWN ON PLANS OR SE RATE EXISTING IN FIELD, WHICHEVER IS GREATER.	
C. SUPERELEVATION TRANSITION LENGTH (LENGTH FROM FLAT POINT TO FULL SE) RATE OF CHANGE CORRESPONDING DIFFERENCE IN GRADE BETWEEN PIVOT POINT AND EDGE OF PAVEMENT	
MINIMUM 1:150 DESIRABLE 1:200 MAXIMUM 1:300	0.67% 0.50% 0.33%
LENGTH SHALL BE SET TO AVOID CREATING A FLAT GUTTER GRADE ON LOW SIDE AND TO AVOID FLAT CROSS SLOPES AT OR NEAR THE LOW POINT OF VERTICAL CURVES.	
D. POSITIONING OF SUPERELEVATION TRANSITION LENGTH ON SIMPLE CURVES 50% OF TRANSITION INSIDE CURVE - MAXIMUM 33% OF TRANSITION INSIDE CURVE - DESIRABLE 20% OF TRANSITION INSIDE CURVE - MINIMUM	
NOTE: CROWN WIPE-OUT SHALL BE AT THE SAME RATE AS THE SE TRANSITION.	
E. SMOOTHING OF BREAKS IN EDGE PROFILE AT BEGIN AND END OF TRANSITION SHALL BE ACCOMPLISHED BY VERTICAL CURVE WITH A MINIMUM LENGTH (1 IN FEET) EQUAL TO THE SPEED DESIGN (1 IN MPH).	

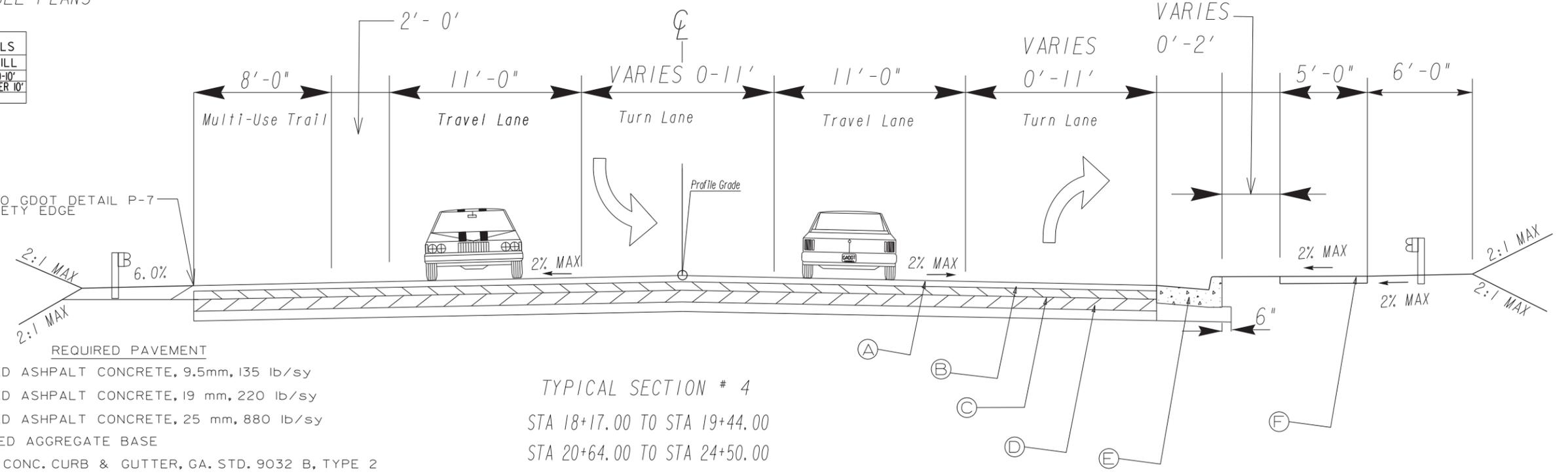


TYPICAL SECTION # 3  
 STA 17+00.00 TO STA. 18+17.00

SLOPE = RATE OF S. E.  
 SEE PLANS

SLOPE CONTROLS		
SLOPE	CUT	FILL
4:1	0-6'	0-10'
2:1	OVER 10'	OVER 10'

REFER TO GDOT DETAIL P-7  
 FOR SAFETY EDGE



TYPICAL SECTION # 4  
 STA 18+17.00 TO STA 19+44.00  
 STA 20+64.00 TO STA 24+50.00

- REQUIRED PAVEMENT
- (A) RECYCLED ASPHALT CONCRETE, 9.5mm, 135 lb/sy
  - (B) RECYCLED ASPHALT CONCRETE, 19 mm, 220 lb/sy
  - (C) RECYCLED ASPHALT CONCRETE, 25 mm, 880 lb/sy
  - (D) 12" GRADED AGGREGATE BASE
  - (E) 8" X 24" CONC. CURB & GUTTER, GA. STD. 9032 B, TYPE 2
  - (F) 4" CONCRETE SIDEWALK

**GEORGIA**  
 DEPARTMENT  
 OF  
 TRANSPORTATION

NTS.

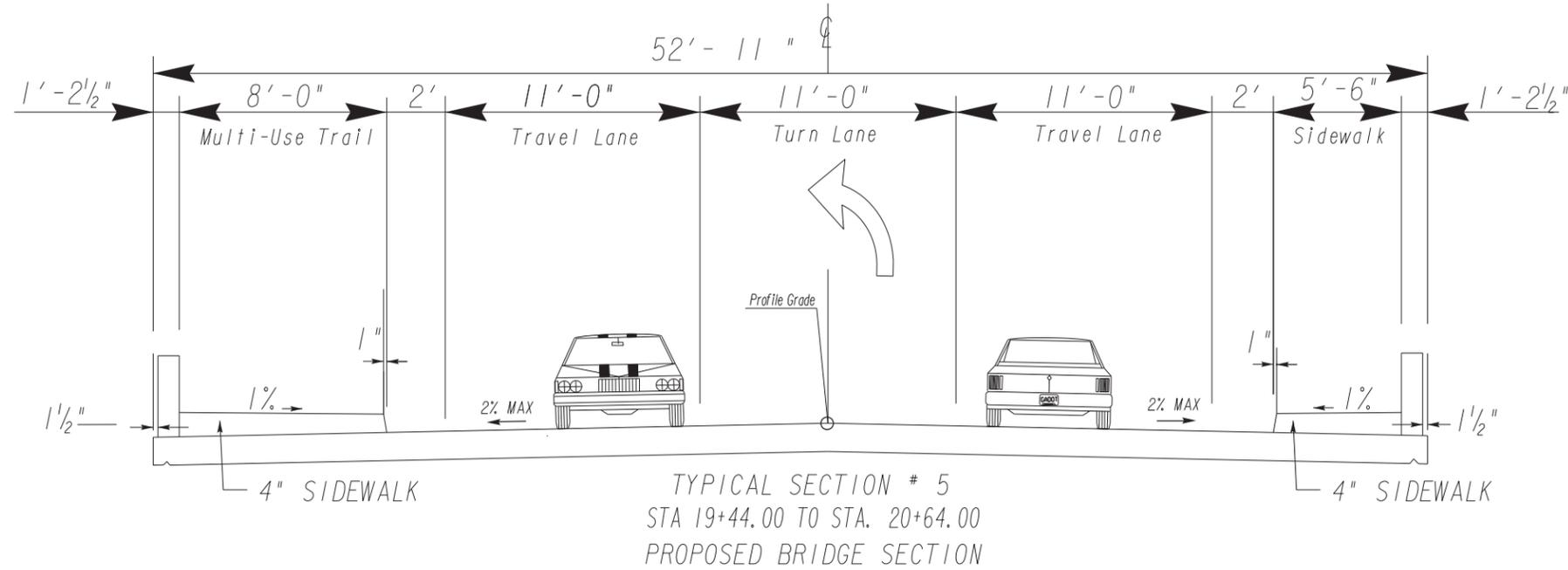
REVISION DATES	

STATE OF GEORGIA  
 DEPARTMENT OF TRANSPORTATION  
 OFFICE: DISTRICT 7 PRECONSTRUCTION

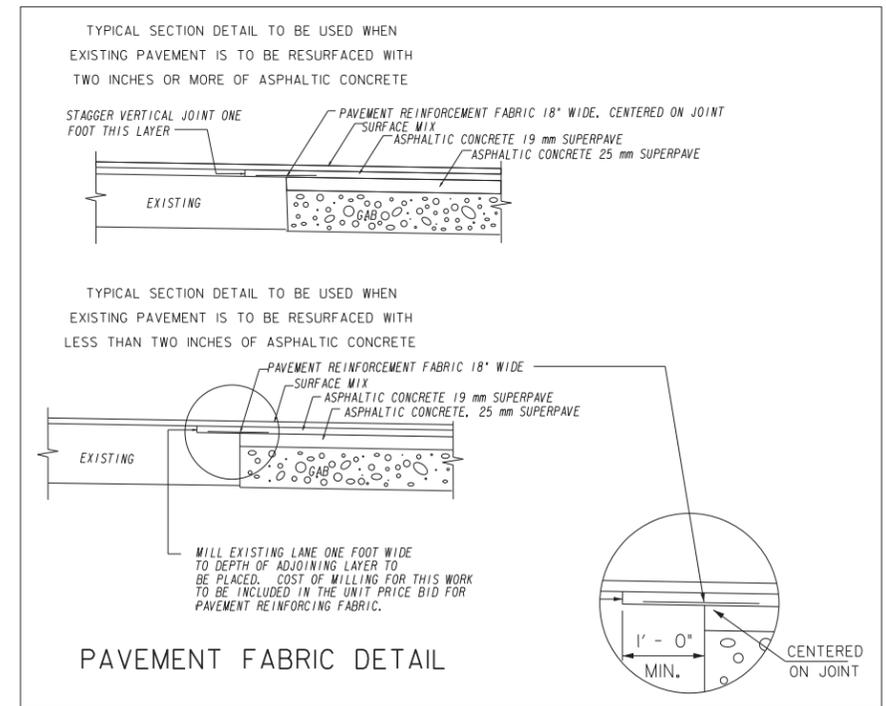
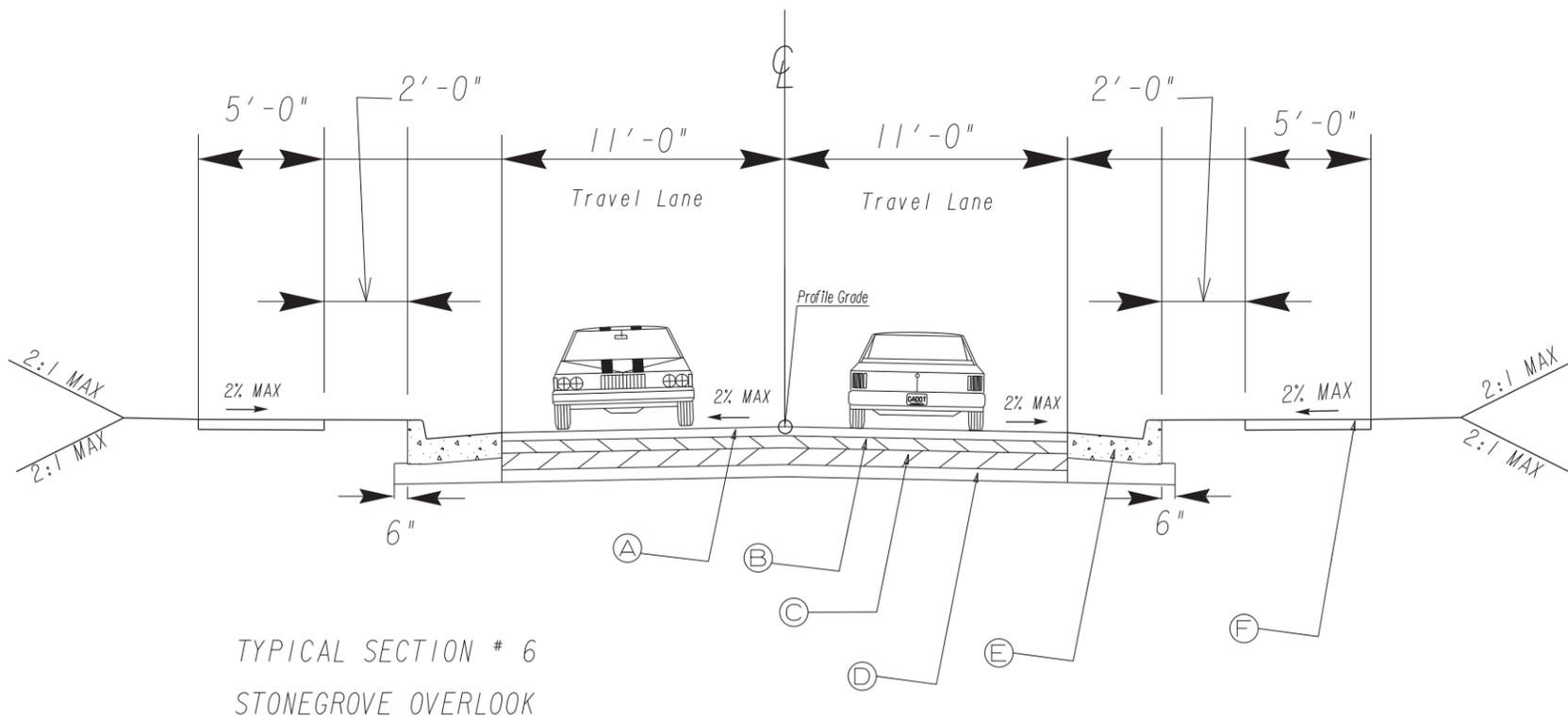
**TYPICAL SECTIONS**

PARSONS ROAD OVER JOHNS CREEK

DRAWING No.  
**05-002**



- REQUIRED PAVEMENT
- Ⓐ RECYCLED ASPHALT CONCRETE, 9.5mm, 135 lb/sy
  - Ⓑ RECYCLED ASPHALT CONCRETE, 19 mm, 220 lb/sy
  - Ⓒ RECYCLED ASPHALT CONCRETE, 25 mm, 880 lb/sy
  - Ⓓ 12" GRADED AGGREGATE BASE
  - Ⓔ 8" X 24" CONC. CURB & GUTTER, GA. STD. 9032 B, TYPE 2
  - Ⓕ 4" CONCRETE SIDEWALK



# DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA

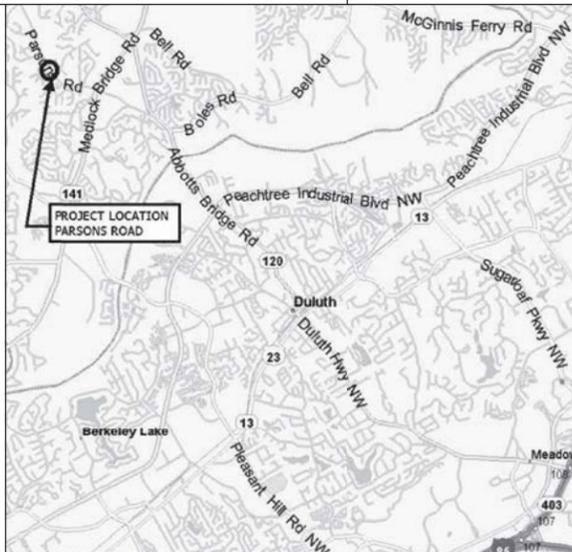
## PLAN AND PROFILE OF PROPOSED CS 79/PARSONS ROAD OVER JOHNS CREEK FULTON COUNTY FEDERAL AID PROJECT CSBRG-0008-00(751)

NOTE:  
ALL REFERENCES IN THIS DOCUMENT WHICH INCLUDES ALL PAPERS, WRITINGS, DOCUMENTS, DRAWINGS, OR PHOTOGRAPHS USED, OR TO BE USED IN CONNECTION WITH THIS DOCUMENT, TO "STATE HIGHWAY DEPARTMENT OF GEORGIA," "STATE HIGHWAY DEPARTMENT," "GEORGIA STATE HIGHWAY DEPARTMENT," "HIGHWAY DEPARTMENT," OR "DEPARTMENT" WHEN THE CONTEXT THEREOF MEANS THE STATE HIGHWAY DEPARTMENT OF GEORGIA, AND SHALL BE DEEMED TO MEAN THE DEPARTMENT OF TRANSPORTATION.

### MIDPOINT COORDINATE

N 1471822.94  
E 228774.44

CS79/PARSONS ROAD



LOCATION SKETCH

DESIGN DATA:  
TRAFFIC A.D.T.: 5,200 (2015)  
TRAFFIC A.D.T.: 7,200 (2035)  
TRAFFIC D.H.V.: N/A  
DIRECTIONAL DIST: 55%  
% TRUCKS: 1.5%  
24 HR. TRUCKS %: 2%  
SPEED DESIGN: 35 MPH

LOCATION & DESIGN  
APPROVAL DATE: 5-10-2013  
FUNCTIONAL CLASS:  
URBAN MINOR COLLECTOR

THIS PROJECT IS 100% IN  
FULTON COUNTY AND IS  
100% IN CONG. DIST. NO. 6.

PROJECT DESIGNATION: EXEMPT

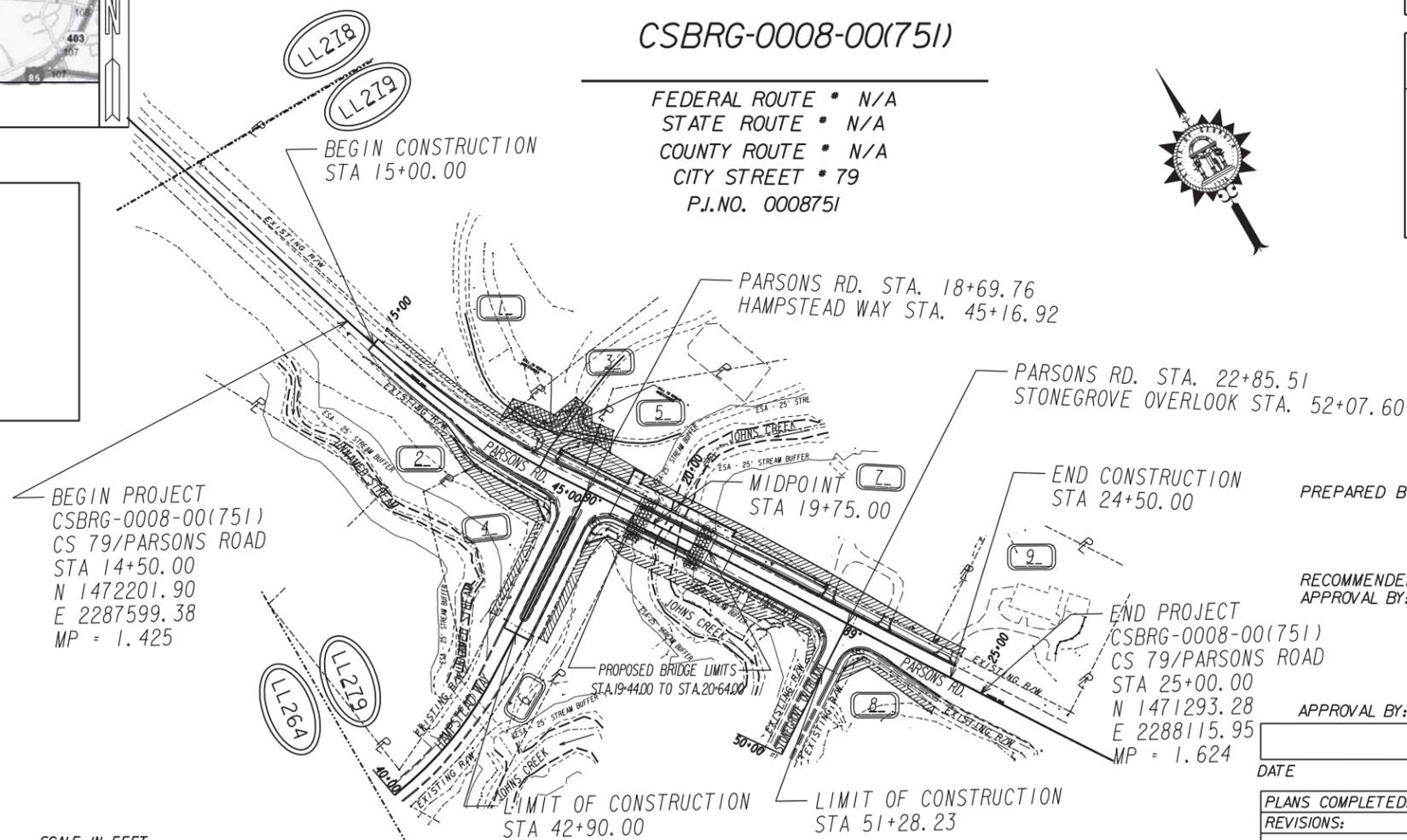
THIS PROJECT HAS BEEN PREPARED  
USING THE HORIZONTAL GEORGIA  
COORDINATE SYSTEM OF 1984 (NAD  
1983)/94 WEST ZONE, AND THE NORTH  
AMERICAN VERTICAL DATUM (NAVD)  
OF 1988.

THE DATA, TOGETHER WITH ALL OTHER INFORMATION SHOWN ON THESE PLANS OR IN ANYWAY INDICATED THEREBY, WHETHER BY DRAWINGS OR NOTES, OR IN ANY OTHER MANNER, ARE BASED UPON FIELD INVESTIGATIONS AND ARE BELIEVED TO BE INDICATIVE OF ACTUAL CONDITIONS. HOWEVER, THE SAME ARE SHOWN AS INFORMATION ONLY, ARE NOT GUARANTEED, AND DO NOT BIND THE DEPARTMENT OF TRANSPORTATION IN ANY WAY. THE ATTENTION OF BIDDER IS SPECIFICALLY DIRECTED TO SUBSECTIONS 102.04, 102.05, AND 104.03 OF THE SPECIFICATIONS.



BEGIN PROJECT  
CSBRG-0008-00(751)  
CS 79/PARSONS ROAD  
STA 14+50.00  
N 1472201.90  
E 2287599.38  
MP = 1.425

FEDERAL ROUTE \* N/A  
STATE ROUTE \* N/A  
COUNTY ROUTE \* N/A  
CITY STREET \* 79  
P.J. NO. 0008751



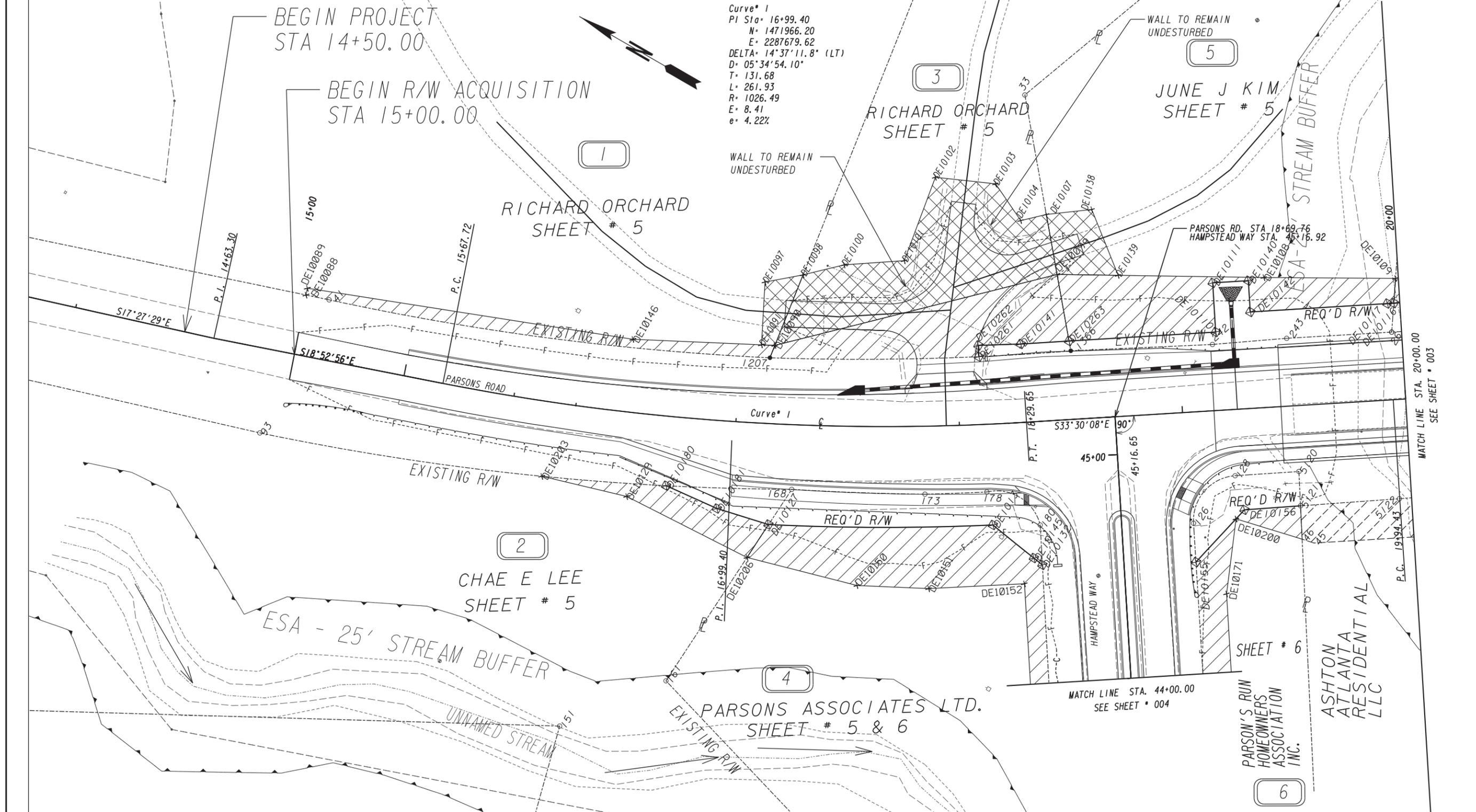
PREPARED BY: JOSHUA HIGGINS  
DESIGN ENGINEER II

RECOMMENDED FOR APPROVAL BY: DISTRICT ENGINEER

APPROVAL BY: CHIEF ENGINEER

LENGTH OF PROJECT	
COUNTY No. 121 Project No. CSBRG-0008-00(751)	
MILES	
NET LENGTH OF ROADWAY	0.1762
NET LENGTH OF BRIDGES	0.0227
NET LENGTH OF PROJECT	0.1989
NET LENGTH OF EXCEPTIONS	0.0000
GROSS LENGTH OF PROJECT	0.1989

PLANS COMPLETED:	
REVISIONS:	



PROPERTY AND EXISTING R/W LINE	---
REQUIRED R/W LINE	---
CONSTRUCTION LIMITS	---
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	---
EASEMENT FOR CONSTR OF SLOPES	---
EASEMENT FOR CONSTR OF DRIVES	---

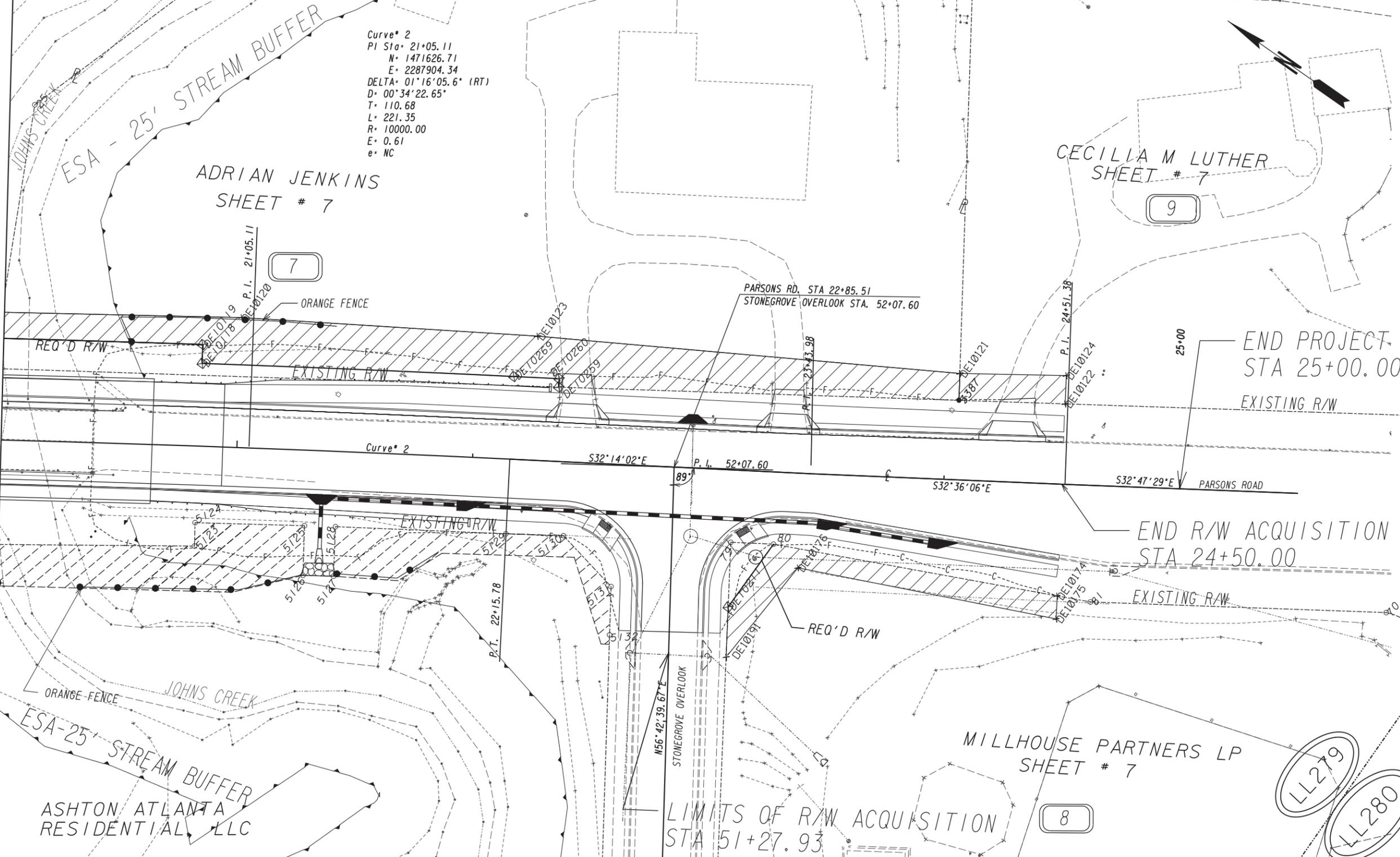
BEGIN LIMIT OF ACCESS.....BLA	---
END LIMIT OF ACCESS.....ELA	---
LIMIT OF ACCESS	---
REQ'D R/W & LIMIT OF ACCESS	---

SCALE IN FEET

**GEORGIA**  
DEPARTMENT  
OF  
TRANSPORTATION

DATE	REVISIONS	DATE	REVISIONS
7-19-13	REDUCED EASEMENT ON PARCELS NO. 1, 2 & 4		
	INCREASED EASEMENT ON PARCELS NO. 3 & 6 AREA 1		
	INCREASED REQ'D ROW ON PARCEL NO. 5		
	INCREASED DRIVEWAY EASEMENT ON PARCEL NO. 5		

STATE OF GEORGIA	DEPARTMENT OF TRANSPORTATION
RIGHT OF WAY MAP	
PROJECT NO.: CSBRG-0008-001751	
COUNTY: FULTON	
LAND LOT NO: 279	
LAND DISTRICT: 1	
GMD	
DATE: 5-17-13	SH 2 OF 7



SEE SHEET \* 002  
MATCH LINE STA. 20+00.00

END PROJECT  
STA 25+00.00  
EXISTING R/W

END R/W ACQUISITION  
STA 24+50.00  
EXISTING R/W

LIMITS OF R/W ACQUISITION  
STA 51+27.93

PROPERTY AND EXISTING R/W LINE	---
REQUIRED R/W LINE	---
CONSTRUCTION LIMITS	---
EASEMENT FOR CONSTR	---
& MAINTENANCE OF SLOPES	---
EASEMENT FOR CONSTR OF SLOPES	---
EASEMENT FOR CONSTR OF DRIVES	---

BEGIN LIMIT OF ACCESS.....BLA	---
END LIMIT OF ACCESS.....ELA	---
LIMIT OF ACCESS	---
REQ'D R/W & LIMIT OF ACCESS	---

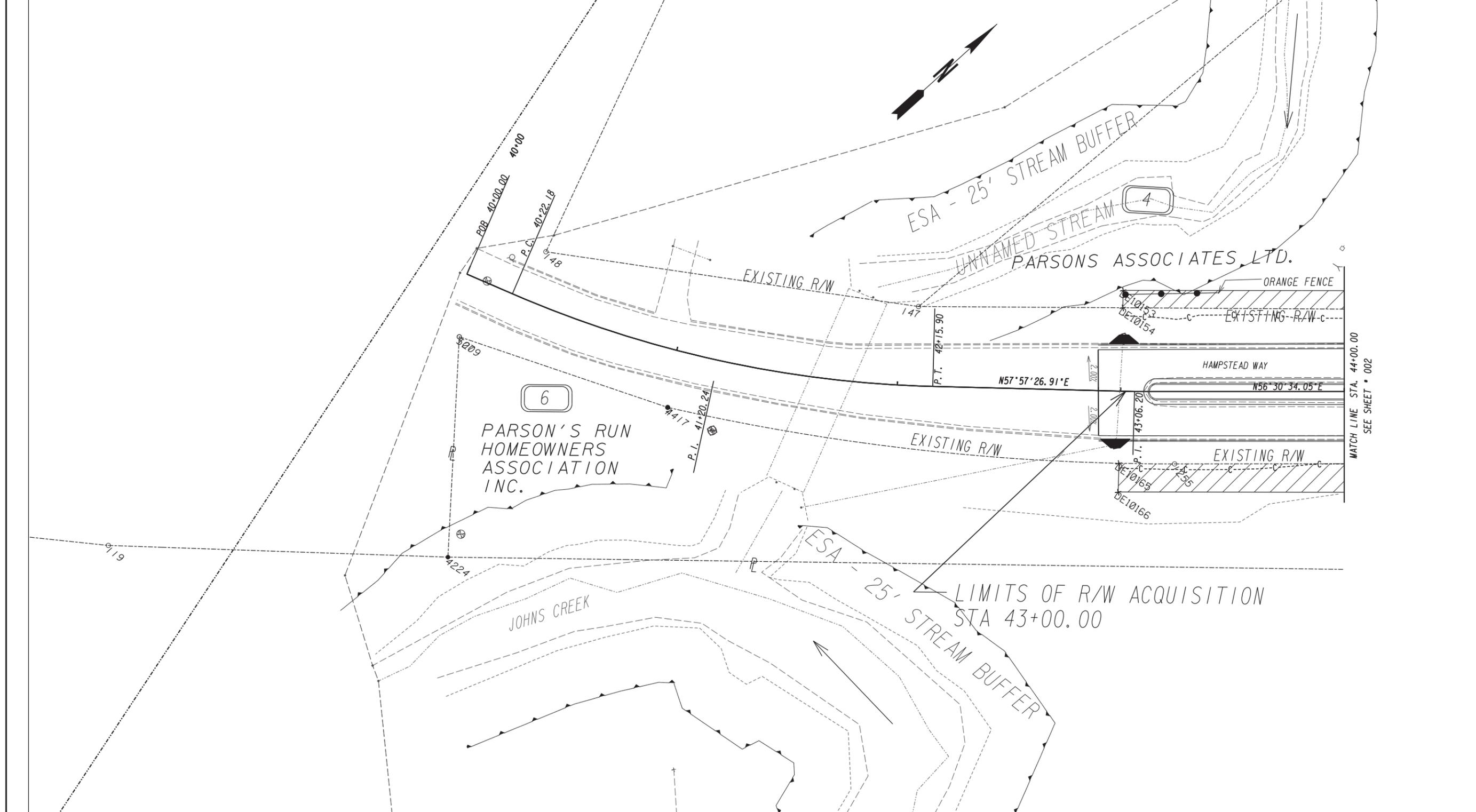
SCALE IN FEET

**GEORGIA**  
DEPARTMENT  
OF  
TRANSPORTATION

DATE	REVISIONS	DATE	REVISIONS
7-19-13	INCREASED REQ'D ROW FOR PARCEL NO. 7		
	INCREASED EASEMENT FOR PARCELS NO. 7 & 9		
	REDUCED EASEMENT FOR PARCEL NO. 8		

DATE	REVISIONS

STATE OF GEORGIA  
DEPARTMENT OF TRANSPORTATION  
**RIGHT OF WAY MAP**  
PROJECT NO: CSBRG-0008-001751  
COUNTY: FULTON  
LAND LOT NO: 279  
LAND DISTRICT: 1  
GMD  
DATE: 5-17-13 SH 3 OF 7



PROPERTY AND EXISTING R/W LINE REQUIRED R/W LINE CONSTRUCTION LIMITS EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES EASEMENT FOR CONSTR OF SLOPES EASEMENT FOR CONSTR OF DRIVES		BEGIN LIMIT OF ACCESS.....BLA END LIMIT OF ACCESS.....ELA LIMIT OF ACCESS REQ'D R/W & LIMIT OF ACCESS	<b>GEORGIA</b> DEPARTMENT OF TRANSPORTATION	DATE	REVISIONS	DATE	REVISIONS	STATE OF GEORGIA DEPARTMENT OF TRANSPORTATION <b>RIGHT OF WAY MAP</b> PROJECT NO: CSBRG-0008-0017511 COUNTY: FULTON LAND LOT NO: 279 LAND DISTRICT: 1 GMD DATE: 5-17-13 SH 4 OF 7
				7-19-13	DECREASED EASEMENT FOR PARCEL NO. 4 INCREASED EASEMENT FOR PARCEL NO. 6 AREA 1			

## **PI 0008751 Fulton County**

### **Revised Concept Report for Bridge Replacement**

The Highway Safety Manual (HSM) has been referenced for the availability of a Predictive analysis using a Safety Performance Function (SPF) with associated Crash Modification Factors (CMF) to provide a predicted average crash frequency. The HSM predictive method for urban and suburban arterials (Chapter 12 – Volume 2) classifies the roadway on this project as a two-lane undivided arterial (2U). The proposed revision for this project is to include an 8 foot wide multi-use trail. The HSM predictive method for urban and suburban arterials does not address adding an 8 foot wide multi-use trail; therefore, no Predictive Method analysis is available.