

D.O.T. 66

DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA

---

INTERDEPARTMENT CORRESPONDENCE

**FILE** P. I. No. 0007687, Forsyth County **OFFICE** Preconstruction  
MSL-0007-00(687)  
Cumming Park and Ride Lot **DATE** June 1, 2006

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

**TO**  SEE DISTRIBUTION

**SUBJECT** APPROVED REVISED PROJECT CONCEPT REPORT

Attached for your files is the approval for subject project.

MBP/cj

Attachment

**DISTRIBUTION:**

Brian Summers  
Harvey Keeper  
Ken Thompson  
Jamie Simpson  
Michael Henry  
Keith Golden  
Joe Palladi (file copy)  
Babs Abubakari  
Ben Buchan  
Russell McMurry  
BOARD MEMBER  
FHWA

**DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA**

**INTERDEPARTMENT CORRESPONDENCE**

**FILE** MSL-0007-00(687), Forsyth County  
Cumming Park and Ride Lot  
P.I. No. 0007687  
**OFFICE** Urban Design  
**DATE** March 7, 2006

**FROM** *James B. Buchan*  
James B. Buchan, P.E., State Urban Design Engineer

**TO** Meg Pirkle, P.E., Assistant Director of Preconstruction

**SUBJECT** Revised Project Concept Report

MAR - 7 2006

Attached is the original copy of the revised Concept Report for your further handling and approval according to the Plan Development Process (PDP).

This revised concept eliminates the proposed southbound bus entrance ramp to SR 400 and the associated walls along the ramp and under Old Atlanta Road. Access into the lot for buses will remain via a slip ramp from the southbound entrance ramp and from Old Atlanta Road. Buses exiting the lot must use Old Atlanta Road to access SR 400. All other vehicular traffic patterns remain the same as the original concept.

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

3/13/06  
Date

*Joseph Palladi*  
State Transportation Planning Administrator

JBB: ~~FHA~~ DMR

- Distribution:  
Brian Summers, Project Review Engineer  
Harvey Keepler, State Environmental/Location Engineer  
Keith Golden, State Traffic Safety and Design Engineer  
Joe Palladi, State Transportation Planning Administrator  
Russell McMurry, District 1 Engineer  
George Merritt, FHWA

## REVISED PROJECT CONCEPT REPORT

**Need and Purpose:** Traffic congestion is the most stubborn barrier to continued economic growth in Georgia and the metropolitan Atlanta region. From 1990 to 2000, the Atlanta region added more than 1.0 million residents to total 3.7 million – almost half of the population of Georgia.

Atlanta's development pattern has increasingly dispersed employment and has generated scattered residential suburbs throughout the region. The dispersed pattern has created suburb-to-suburb transportation needs and has decreased the percentage of the region's jobs located in one central location, downtown Atlanta (from 25% of the jobs in downtown Atlanta to 6%).

The region's road network and trip-making patterns have created corridors with high levels of traffic congestion on a daily basis. Despite significant investments in freeways and transit systems, radial and suburban cross-town corridors alike are congested. By 2025, the number of daily person trips in the region will rise to 14.6 million, a 37% increase. There are 44 congested corridors within the 13-county region, as identified by the Atlanta Regional Commission (ARC).

In recent years, the Atlanta metropolitan region has taken major steps in meeting the transportation challenges for its residents and visitors. Until recently, an overall transit plan had not been developed for the region which would address the current and future transit needs. The plan, identified as the Regional Transit Action Plan (RTAP), has been developed over a two year time frame and has provided an integrated public transportation network for the Atlanta region. The RTAP and associated projects are included in the 2025 Amended RTP and the 2003-2005 TIP as Projects AR-367B, AR-367C, AR-392, and AR-393. The RTAP will be an integral transit component of the 2030 Regional Transportation Plan (RTP) being currently developed by the ARC.

The RTAP concept plan is the regional blueprint which would define the future public transportation network for the Atlanta region. The plan lays out a new direction in extending transit services into congested corridors through the implementation of a regional transit network consisting of 1) the Regional Express Bus Program and 2) the Regional Bus Rapid Transit System. The plan also calls for:

- Preservation and maintenance of existing transit services and infrastructure;
- Expanded local bus service throughout the 13-county region;
- A seamless, integrated fare policy for the region'
- An investment in Intelligent Transportation Systems technologies, and
- Support tools that will enable more people to perceive transit as a viable option for their travel needs;
- Land use plans and regulations should be modified to encourage transit-oriented developments; comprehensive plans should take a strong position on the role of transit in the community.

The RTAP has identified a regional express bus system, supporting circulator systems, arterial Bus Rapid Transit (BRT) corridors, and high speed BRT corridors. The identified system will provide competitive choices to the region's residents, will enhance the customer experience, will invest wisely and optimize value of such a system, and will develop an integrated system.

As part of the development of such a system, locations throughout the region for supporting infrastructure are being identified. Such supporting infrastructure would include, but not be limited to, park and ride lots, new construction and existing sites, and maintenance facilities. One identified facility is the Cumming Park and Ride Lot. This facility would be located in an 8.74-acre parcel adjacent to SR400, just south of Highway 20, in Forsyth County, Georgia.

**Project location:** The proposed project consists of constructing a park and ride lot facility on an 8.74-acre site located in Forsyth County, Georgia. The parcel is bordered by SR400 to the south and east, Old Atlanta Road to the west, and a commercial development to the north.

**Description of the approved concept:** The concept report was approved August 15, 2005. It describes a GRTA park and ride facility with approximately 480 parking spaces, dedicated bus drop-off/pick-up areas, a fare system facility, 4 bus pavilions, and access to the site from various locations. The access/egress points for commuter vehicles are provided at two points along Old Atlanta Road. The access/egress points for the buses are provided via two separate off and on ramps installed parallel to the existing southbound entrance ramp to GA.400 at SR20.

**PDP Classification:** Major \_\_\_\_\_ Minor  X

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

**Functional Classification:** Old Atlanta Road – Rural Major Collector  
SR400 – Rural Interstate Principal Arterial

**U. S. Route Number(s):** US19

**State Route Number(s):** SR400

**County Route Number(s):** Old Atlanta Road – CR450

**Traffic (AADT) as shown in the approved concept:** Old Atlanta Road – 10,000  
SR400 – 50,000

**Proposed features to be revised:**

- *Typical Section*
  - Proposed features of the approved concept plan include two new highway ramps to be used by the bus for access to and from the site via SR20/GA400 interchange. The bus ramps will include one 20-foot wide lane with guardrails, 6-foot paved shoulders on each side and drainage ditches.
- *Structures*
  - A soil nail wall is proposed to reinforce the existing slope paving under the Old Atlanta bridge as a result of the proposed bus lane that will be constructed.

**Revised feature(s) to be approved:**

- *Revised Typical Section*
  - The revised concept proposes to eliminate the ramp intended to be used for buses exiting the site. Instead, buses will use one of the proposed access points to Old Atlanta Road. The proposed ramp for buses entering the site remains in the concept.
- *Revised Structures*
  - The revised concept proposes to eliminate the soil nail wall to be located under the Old Atlanta bridge. It is no longer necessary since the ramp has been eliminated from the concept.

Project Concept Report - Cumming Park and Ride Lot  
Project Number: MSL-0007-00(687) Forsyth County  
P.I. Number: 0007687

**Updated traffic data (AADT):**

Old Atlanta Road: Current Year: 2006 = 10,970 Design Year: 2026 = 19,820

SR400: Current Year: 2006 = 58,450 Design Year: 2026 = 105,560

**Programmed/Schedule:**

P.E. \_\_\_\_\_ R/W: \_\_\_\_\_ Construction: TO BE LET JUNE 2006

**Revised cost estimates:**

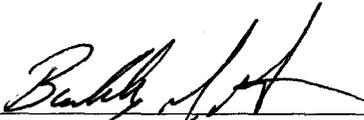
1. Construction cost including inflation and E&C

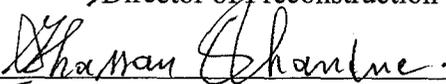
Is the project located in a Non-attainment area?  X  Yes   No.

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

**Attachments:**

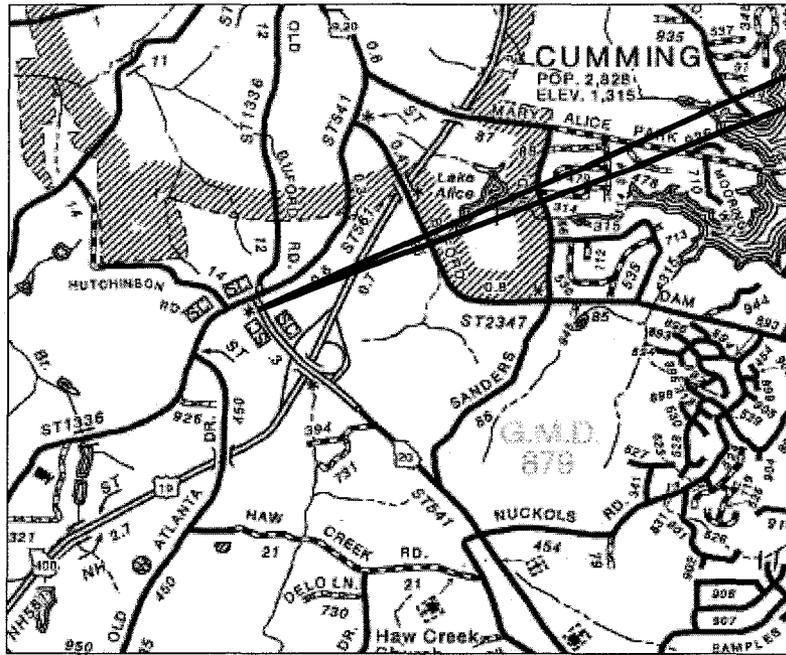
1. Sketch Map,
2. Cost Estimate,
3. Revised Layouts (3 sheets)

Concur:   
Director of Preconstruction

See Comments/Letter dated May 24, 2006 → Approve:   
For: Division Administrator, FHWA

Approve:   
Chief Engineer

Project Concept Report - Cumming Park and Ride Lot  
Project Number: MSL-0007-00(687) Forsyth County  
P.I. Number:0007687



**Project Site**  
Cumming  
Park & Ride Lot

### Location Map

**Project: MSL-0007-00(687) Forsyth PI No.: 0007687**

**Description: Cumming Park and Ride Lot**

## Estimate Report for file "Cumming (2006-02-13)"

### Section ROADWAY ITEMS - NON PAVEMENT ITEMS

Item Number	Quantity	Units	Unit Price	Item Description	Cost
150-1000	1	LS	50000.00	TRAFFIC CONTROL -	50000.00
153-1300	1	EA	56588.73	FIELD ENGINEERS OFFICE TP 3	56588.73
210-0100	1	LS	1400000.00	GRADING COMPLETE - CSMSL-0007-00(687)	1400000.00
318-3000	100	TN	17.21	AGGR SURF CRS	1721.00
441-0016	51	SY	29.05	DRIVEWAY CONCRETE, 6 IN TK	1481.55
441-0104	2540	SY	31.48	CONC SIDEWALK, 4 IN	79959.20
441-0204	430	SY	27.36	PLAIN CONC DITCH PAVING, 4 IN	11764.80
441-0303	2	EA	1607.06	CONC SPILLWAY, TP 3	3214.12
441-6216	8660	LF	12.18	CONC CURB & GUTTER, 8 IN X 24 IN, TP 2	105478.80
441-6222	1860	LF	12.52	CONC CURB & GUTTER, 8 IN X 30 IN, TP 2	23287.20
500-3101	30	CY	458.46	CLASS A CONCRETE	13753.80
500-9999	20	CY	193.64	CLASS B CONC, BASE OR PVMT WIDENING	3872.80
550-1180	1280	LF	45.18	STORM DRAIN PIPE, 18 IN, H 1-10	57830.40
550-1181	150	LF	33.45	STORM DRAIN PIPE, 18 IN, H 10-15	5017.50
550-1240	310	LF	55.05	STORM DRAIN PIPE, 24 IN, H 1-10	17065.50
550-1241	270	LF	43.45	STORM DRAIN PIPE, 24 IN, H 10-15	11731.50
550-1420	10	LF	73.26	STORM DRAIN PIPE, 42 IN, H 1-10	732.60
550-4218	4	EA	475.83	FLARED END SECTION 18 IN, STORM DRAIN	1903.32
550-4224	3	EA	518.41	FLARED END SECTION 24 IN, STORM DRAIN	1555.23
550-4424	2	EA	441.58	FLARED END SECTION, 24 IN, SLOPE DRAIN	883.16
573-2006	200	LF	12.16	UNDDR PIPE INCL DRAINAGE AGGR, 6 IN	2432.00
576-1024	220	LF	36.61	SLOPE DRAIN PIPE, 24 IN	8054.20
603-2181	45	SY	48.51	STN DUMPED RIP RAP, TP 3, 18 IN	2182.95
603-7000	45	SY	4.41	PLASTIC FILTER FABRIC	198.45
610-1055	750	LF	1.38	REM GUARDRAIL	1035.00
610-1075	4	EA	106.52	REM GUARDRAIL ANCH, ALL TYPES	426.08
627-1000	2700	SF	41.47	MSE WALL FACE, 0 - 10 FT HT, WALL NO -	111969.00
627-1010	1370	SF	42.48	MSE WALL FACE, 10 - 20 FT HT, WALL NO -	58197.60
627-1100	500	LF	64.28	COPING A, WALL NO -	32140.00
641-1100	45	LF	31.00	GUARDRAIL, TP T	1395.00
641-1200	1590	LF	13.56	GUARDRAIL, TP W	21560.40
641-5001	6	EA	473.05	GUARDRAIL ANCHORAGE, TP 1	2838.30
641-5012	2	EA	1546.11	GUARDRAIL ANCHORAGE, TP 12	3092.22
643-1152	2675	LF	14.12	CH LK FENCE, ZC COAT, 6 FT, 9 GA	37771.00
643-8010	2	EA	963.65	GATE, CHAIN LINK ZC COAT -	1927.30
660-0006	100	LF	30.33	SAN SEWER PIPE, 6 IN, PVC	3033.00
668-1100	21	EA	2474.27	CATCH BASIN, GP 1	51959.67
668-1110	30	LF	231.47	CATCH BASIN, GP 1, ADDL DEPTH	6944.10
668-2100	4	EA	2040.01	DROP INLET, GP 1	8160.04
668-4300	8	EA	2613.20	STORM SEWER MANHOLE, TP 1	20905.60
668-4311	51	LF	278.60	STORM SEWER MANHOLE, TP 1, ADDL DEPTH, CL 1	14208.60
<b>Section Sub Total:</b>					<b>\$2,238,271.72</b>

### Section ROADWAY PAVEMENT ITEMS

Item Number	Quantity	Units	Unit Price	Item Description	Cost
310-1101	1720	TN	17.11	GR AGGR BASE CRS, INCL MATL	29429.20
402-1812	75	TN	41.25	RECYCLED ASPH CONC LEVELING, INCL BITUM MATL & H LIME	3093.75
402-3121	1060	TN	60.06	RECYCLED ASPH CONC 25 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME	63663.60
402-3131	680	TN	70.64	RECYCLED ASPH CONC 9.5 MM SUPERPAVE, GP 2 ONLY, INCL BITUM MATL & H LIME	48035.20
402-3190	440	TN	65.02	RECYCLED ASPH CONC 19 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME	28608.80
413-1000	310	GL	1.67	BITUM TACK COAT	517.70
432-5010	250	SY	1.66	MILL ASPH CONC PVMT, VARIABLE DEPTH	415.00
<b>Section Sub Total:</b>					<b>\$173,763.25</b>

### Section ALTERNATE A

Item Number	Quantity	Units	Unit Price	Item Description	Cost
310-1101	9651	TN	17.11	GR AGGR BASE CRS, INCL MATL	165128.61
402-3121	5916	TN	60.06	RECYCLED ASPH CONC 25 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME	355314.96
402-3131	1831	TN	70.64	RECYCLED ASPH CONC 9.5 MM SUPERPAVE, GP 2 ONLY, INCL BITUM MATL & H LIME	129341.84
402-3190	2395	TN	65.02	RECYCLED ASPH CONC 19 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME	155722.90
413-1000	1281	GL	1.67	BITUM TACK COAT	2139.27
652-0095	12	EA	58.40	PAVEMENT MARKING, HANDICAP SYMBOL	700.80
652-0110	28	EA	65.50	PAVEMENT MARKING, ARROW, TP 1	1834.00

652-0210	3	EA	90.89	PAVEMENT MARKING, WORD, TP 1	272.67
652-5451	3650	LF	1.00	SOLID TRAFFIC STRIPE, 5 IN, WHITE	3650.00
652-5452	1320	LF	1.00	SOLID TRAFFIC STRIPE, 5 IN, YELLOW	1320.00
652-5701	30	LF	2.72	SOLID TRAF STRIPE, 24 IN, WHITE	81.60
652-5801	450	LF	1.41	SOLID TRAF STRIPE, 8 IN, WHITE	634.50
652-6501	700	GLF	0.68	SKIP TRAFFIC STRIPE, 5 IN, WHITE	476.00
652-9001	230	SY	3.81	TRAFFIC STRIPE, WHITE	876.30
652-9002	320	SY	5.11	TRAFFIC STRIPE, YELLOW	1635.20
652-XXXX	3	EA	1.00	PAVEMENT MARKING, WORD, TP6	3.00
<b>Section Sub Total:</b>					<b>\$819,131.65</b>

### Section SIGNS

Item Number	Quantity	Units	Unit Price	Item Description	Cost
610-9001	1	EA	334.47	REM SIGN	334.47
611-5551	1	EA	2458.13	RESET SIGN	2458.13
636-1020	50	SF	17.74	HIGHWAY SIGNS, TP 1 MATL, REFL SHEETING, TP 3	887.00
636-1031	90	SF	19.24	HIGHWAY SIGNS, TP 1 MATL, REFL SHEETING TP 6	1731.60
636-2070	330	LF	8.65	GALV STEEL POSTS, TP 7	2854.50
636-2080	20	LF	8.86	GALV STEEL POSTS, TP 8	177.20
<b>Section Sub Total:</b>					<b>\$8,442.90</b>

### Section PAVEMENT MARKINGS

Item Number	Quantity	Units	Unit Price	Item Description	Cost
653-0120	10	EA	58.67	THERMOPLASTIC PVMT MARKING, ARROW, TP 2	586.70
653-0210	2	EA	92.58	THERMOPLASTIC PVMT MARKING, WORD, TP 1	185.16
653-0260	2	EA	92.58	THERMOPLASTIC PVMT MARKING, WORD, TP 6	185.16
653-1501	3650	LF	0.27	THERMOPLASTIC SOLID TRAF STRIPE, 5 IN, WHITE	985.50
653-1502	1320	LF	0.26	THERMOPLASTIC SOLID TRAF STRIPE, 5 IN, YELLOW	343.20
653-1704	30	LF	3.34	THERMOPLASTIC SOLID TRAF STRIPE, 24 IN, WHITE	100.20
653-1804	450	LF	1.64	THERMOPLASTIC SOLID TRAF STRIPE, 8 IN, WHITE	738.00
653-1810	200	LF	0.86	THERMOPLASTIC SOLID TRAF STRIPE, 10 IN, WHITE	172.00
653-3501	700	GLF	0.17	THERMOPLASTIC SKIP TRAF STRIPE, 5 IN, WHITE	119.00
653-3502	1350	GLF	0.15	THERMOPLASTIC SKIP TRAF STRIPE, 5 IN, YELLOW	202.50
653-6004	230	SY	2.55	THERMOPLASTIC TRAF STRIPING, WHITE	586.50
653-6006	320	SY	2.67	THERMOPLASTIC TRAF STRIPING, YELLOW	854.40
654-1003	12	EA	3.77	RAISED PVMT MARKERS TP 3	45.24
<b>Section Sub Total:</b>					<b>\$5,103.56</b>

### Section EROSION CONTROL ITEMS

Item Number	Quantity	Units	Unit Price	Item Description	Cost
163-0232	5	AC	712.03	TEMPORARY GRASSING	3560.15
163-0240	40	TN	325.51	MULCH	13020.40
163-0300	2	EA	1783.89	CONSTRUCTION EXIT	3567.78
163-0525	2	EA	4374.67	CONSTRUCT AND REMOVE TEMPORARY EROSION CONTROL STRUCTURE	8749.34
163-0550	48	EA	321.78	CONSTRUCT AND REMOVE INLET SEDIMENT TRAP	15445.44
165-0030	9300	LF	1.45	MAINTENANCE OF TEMPORARY SILT FENCE, TP C	13485.00
165-0060	2	EA	2025.86	MAINTENANCE OF TEMPORARY SEDIMENT BASIN, STA NO -	4051.72
165-0101	2	EA	649.88	MAINTENANCE OF CONSTRUCTION EXIT	1299.76
165-0105	48	EA	237.70	MAINTENANCE OF INLET SEDIMENT TRAP	11409.60
167-1000	2	EA	908.00	WATER QUALITY MONITORING AND SAMPLING	1816.00
167-1500	18	MO	777.45	WATER QUALITY INSPECTIONS	13994.10
171-0030	9300	LF	3.44	TEMPORARY SILT FENCE, TYPE C	31992.00
700-6910	9	AC	1265.15	PERMANENT GRASSING	11386.35
700-7000	26	TN	85.55	AGRICULTURAL LIME	2224.30
700-7010	22	GL	29.38	LIQUID LIME	646.36
700-8000	8	TN	325.75	FERTILIZER MIXED GRADE	2606.00
700-8100	420	LB	2.26	FERTILIZER NITROGEN CONTENT	949.20
716-2000	8913	SY	1.24	EROSION CONTROL MATS, SLOPES	11052.12
<b>Section Sub Total:</b>					<b>\$151,255.62</b>

### Section LANDSCAPE ITEMS

Item Number	Quantity	Units	Unit Price	Item Description	Cost
702-0030	19	EA	619.55	ACER RUBRUM -	11771.45
702-0105	12	EA	1124.80	BETULA NIGRA -	13497.60
702-0358	60	EA	31.32	ILEX CORNUTA -	1879.20
702-0470	48	EA	33.70	ILEX VOMITORIA -	1617.60
702-0520	29	EA	350.00	JUNIPERUS VIRGINIANA -	10150.00
702-0559	760	EA	11.20	LIRIOPE MUSCARI - "BIG BLUE"	8512.00
702-0559	776	EA	11.20	LIRIOPE MUSCARI - "VARIEGATA"	8691.20

702-0905	35	EA	1469.60	QUERCUS PHELLOS -	51436.00
702-0977	50	EA	32.66	RHAPHIOLEPIS INDICA -	1633.00
702-1082	41	EA	352.45	ULMUS PARVIFOLIA -	14450.45
<b>Section Sub Total:</b>					<b>\$123,638.50</b>

### Section COMMUNICATION/SECURITY

Item Number	Quantity	Units	Unit Price	Item Description	Cost
682-6108	70	LF	8.13	CONDUIT, RIGID, 3/4 IN	569.10
682-6110	880	LF	9.52	CONDUIT, RIGID, 1 IN	8377.60
682-6115	520	LF	10.63	CONDUIT, RIGID, 1 1/2 IN	5527.60
682-6120	370	LF	13.40	CONDUIT, RIGID, 2 IN	4958.00
682-6130	100	LF	22.40	CONDUIT, RIGID, 3 IN	2240.00
682-9020	1	EA	670.00	ELECTRICAL JUNCTION BOX	670.00
<b>Section Sub Total:</b>					<b>\$22,342.30</b>

### Section HARDSCAPE ITEMS

Item Number	Quantity	Units	Unit Price	Item Description	Cost
441-9000	49	EA	135.34	PRECAST BUMPER BLOCK	6631.66
763-0100	Lump	Lump Sum	234100.00	FARE SYSTEMS SHELTER	234100.00
763-0110	Lump	Lump Sum	218424.00	BUS PAVILION	218424.00
900-0526	9	EA	526.41	BOLLARD	4737.69
<b>Section Sub Total:</b>					<b>\$463,893.35</b>

### Section UTILITY WATER ITEMS

Item Number	Quantity	Units	Unit Price	Item Description	Cost
670-1080	390	LF	49.99	WATER MAIN, 8 IN	19496.10
670-2009	1	EA	320.00	GATE VALVE, 3/4 IN	320.00
670-3127	1	EA	4720.00	TAPPING SLEEVE & VALVE ASSEMBLY, 12 IN X 8 IN	4720.00
670-4000	1	EA	2936.00	FIRE HYDRANT	2936.00
670-5620	290	LF	17.40	WATER SERVICE LINE, 3/4 IN	5046.00
670-9732	1	EA	2403.00	INSTALL BACKFLOW PREVENTION ASSEMBLY, WITH VAULT - DOMESTIC	2403.00
670-9732	1	EA	18630.00	INSTALL BACKFLOW PREVENTION ASSEMBLY, WITH VAULT - FIRE	18630.00
<b>Section Sub Total:</b>					<b>\$53,551.10</b>

### Section UTILITY POWER ITEMS

Item Number	Quantity	Units	Unit Price	Item Description	Cost
682-1407	80	LF	1.68	CABLE, TP XHHW, AWG NO 4	134.40
682-6344	25	LF	78.30	CONDUIT, ENCASED, TP 1, 4-IN 4 WAY	1957.50
<b>Section Sub Total:</b>					<b>\$2,091.90</b>

### Section UTILITY - TELEPHONE/DATA ITEMS

Item Number	Quantity	Units	Unit Price	Item Description	Cost
682-6344	200	LF	78.30	CONDUIT, ENCASED, TP 1, 4-IN 4-WAY	15660.00
682-9020	2	EA	670.00	ELECTRICAL JUNCTION BOX	1340.00
<b>Section Sub Total:</b>					<b>\$17,000.00</b>

### Section LIGHTING ITEMS

Item Number	Quantity	Units	Unit Price	Item Description	Cost
681-4210	16	EA	3350.00	LIGHTING STD, 30 FT MH, POST TOP	53600.00
681-6364	21	EA	1005.00	LUMINAIRE, TP 3, 400W, METAL HALIDE	21105.00
681-6464	11	EA	1005.00	LUMINAIRE, TP 4, 400W, METAL HALIDE	11055.00
682-1404	7580	LF	1.12	CABLE, TP XHHW, AWG NO 6	8489.60
682-1406	10740	LF	2.13	CABLE, TP XHHW, AWG NO 6	22876.20
682-6108	80	LF	8.13	CONDUIT, RIGID, 3/4 IN	650.40
682-6110	1300	LF	9.52	CONDUIT, RIGID, 1 IN	12376.00
682-6115	1120	LF	10.63	CONDUIT, RIGID, 1 1/2 IN	11905.60
682-9020	3	EA	670.00	ELECTRICAL JUNCTION BOX	2010.00
<b>Section Sub Total:</b>					<b>\$144,067.80</b>

**Total Estimated Cost: \$4,222,553.65**

**Subtotal Construction Cost      \$4,222,553.65**

E&C Rate 5.0 % \$211,127.68

Inflation Rate 0.0 % @ 0.0 Years \$0.00

---

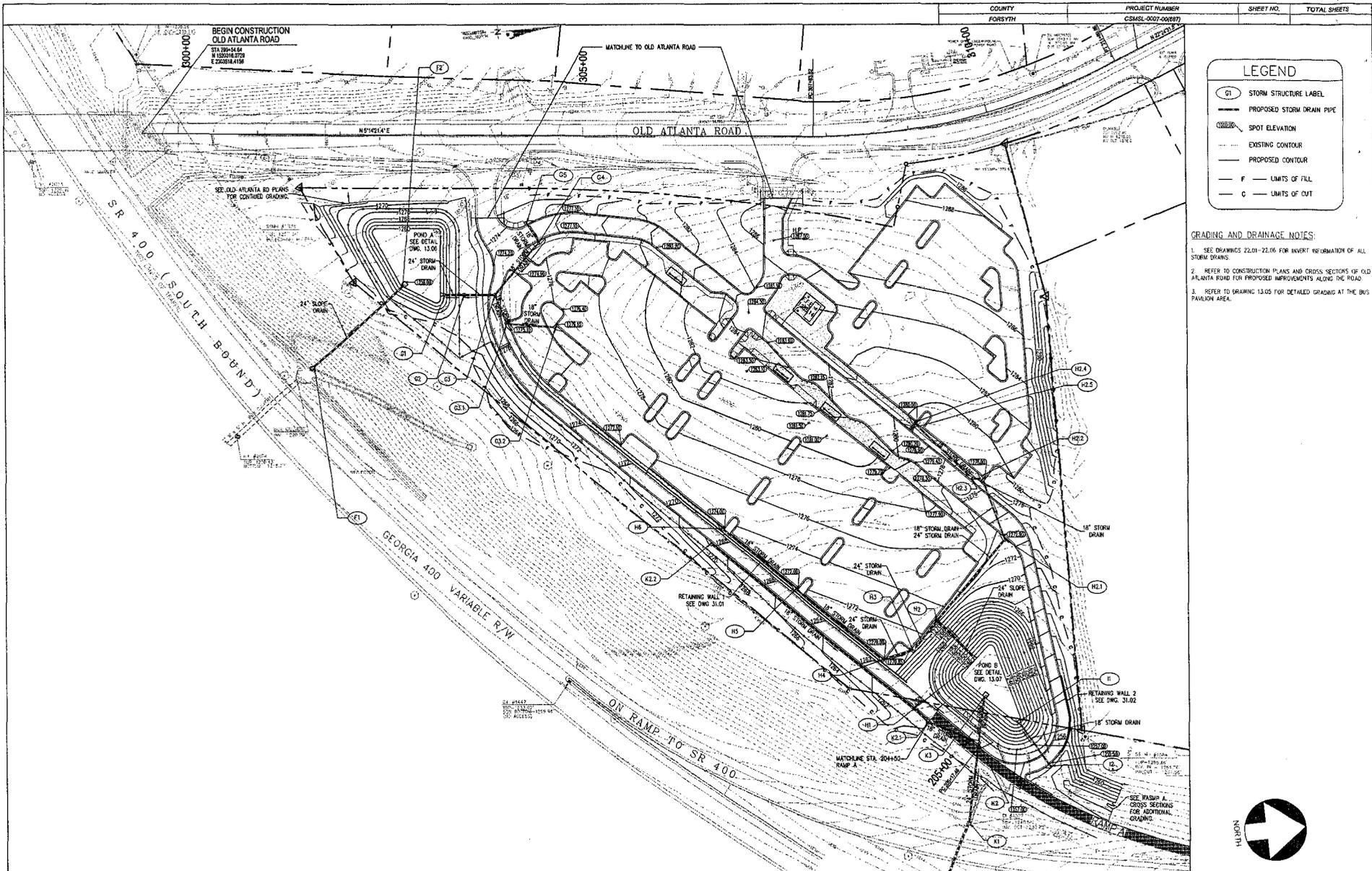
**Total Construction Cost \$4,433,681.33**

Right Of Way \$0.00

ReImb. Utilities \$0.00

---

**Grand Total Project Cost \$4,433,681.33**



**LEGEND**

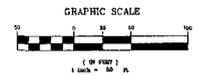
- (G1) STORM STRUCTURE LABEL
- PROPOSED STORM DRAIN PIPE
- SPOT ELEVATION
- EXISTING CONTOUR
- PROPOSED CONTOUR
- F — LIMITS OF FILL
- C — LIMITS OF CUT

- GRADING AND DRAINAGE NOTES:**
- SEE DRAWINGS 22.01-22.06 FOR INVERT INFORMATION OF ALL STORM DRAINS.
  - REFER TO CONSTRUCTION PLANS AND CROSS SECTIONS OF OLD ATLANTA ROAD FOR PROPOSED IMPROVEMENTS ALONG THE ROAD.
  - REFER TO DRAWING 13.05 FOR DETAILED GRADING AT THE BUS PARKING AREA.



SR 400 (SOUTH BOUND)  
 GEORGIA 400 VARIABLE R/W  
 ON RAMP TO SR 400

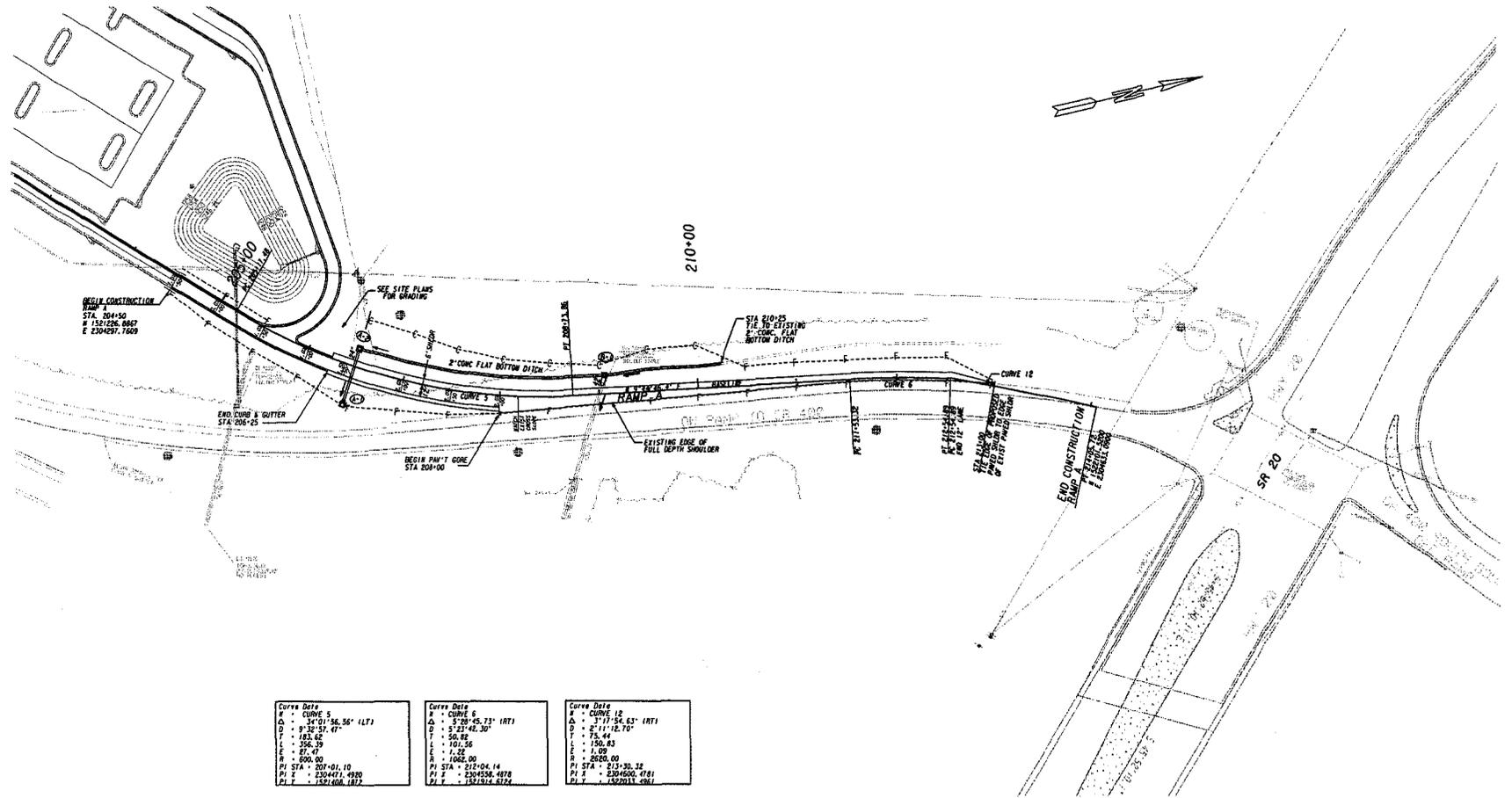
**URS**  
 400 Northpark Town Center  
 1000 Abernathy Road N.E., Suite 900  
 Atlanta, Georgia 30328  
 Tel: (678) 808-8800, Fax: (678) 808-8400



REVISION DATES

STATE OF GEORGIA  
 DEPARTMENT OF TRANSPORTATION  
 OFFICE OF URBAN DESIGN  
**GRADING AND DRAINAGE PLAN**  
 PARKING LOT  
 CUMMING  
 PARK AND RIDE LOT

**13.04**  
 DRAWING NO.



Curve Data	Curve Data	Curve Data
CURVE 5 Δ = 34°01'56.55" (L) D = 9°32'57.47" T = 183.62 L = 356.39 E = 87.47 R = 600.00 PI STA = 207+01.10 P1 STA = 230+471.498 P2 = 150+008.187	CURVE 6 Δ = 5°20'45.73" (RT) D = 5°31'42.30" T = 50.50 L = 101.56 E = 1.32 R = 1062.00 PI STA = 215+04.14 P1 J = 230+536.4878 P2 = 150+518.6224	CURVE 12 Δ = 3°11'12.70" D = 3°11'12.70" T = 75.44 L = 150.83 E = 1.00 R = 2820.00 PI STA = 213+30.33 P1 J = 230+600.1781 P2 = 150+2511.5861

PROPERTY AND EXISTING R/W LINE ————  
 REQUIRED R/W LINE ————  
 CONSTRUCTION LIMITS ————  
 EASEMENT FOR CONSTRUCTION & MAINTENANCE OF SLOPES [Hatched Box]  
 EASEMENT FOR CONSTR OF SLOPES [Cross-hatched Box]  
 EASEMENT FOR CONSTR OF DRIVES [Diagonal-hatched Box]

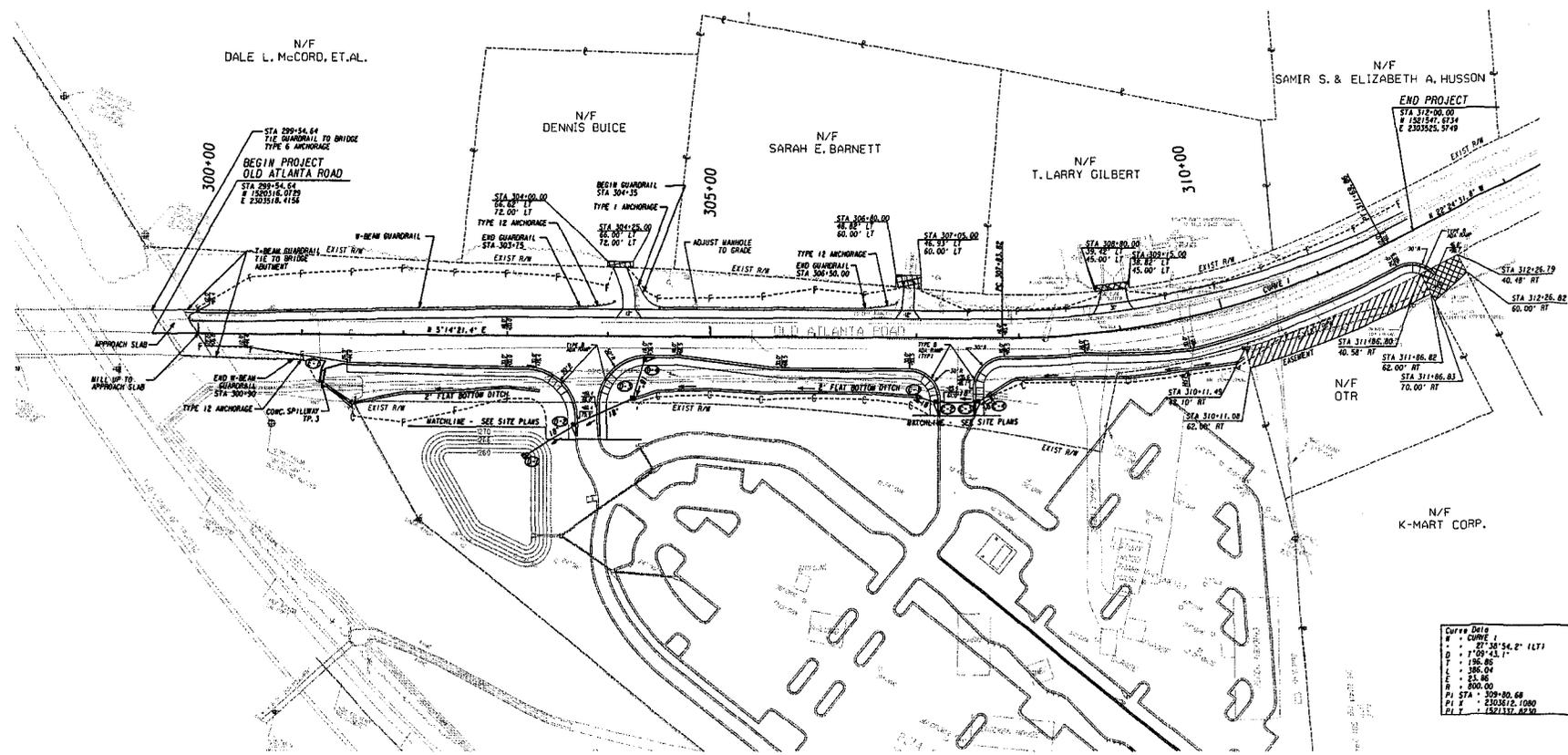
BEGIN LIMIT OF ACCESS .....BLA  
 END LIMIT OF ACCESS .....ELA  
 LIMIT OF ACCESS ————  
 R/W AND LIMIT OF ACCESS ————

**URS**  
 400 NORTHPARK TOWN CENTER  
 1000 ABERNATHY RD., N.E.  
 SUITE 900  
 ATLANTA, GA. 30328  
 TEL: (678) 808-8800 FAX: (678) 808-8400



REVISION DATES

STATE OF GEORGIA  
 DEPARTMENT OF TRANSPORTATION  
 OFFICE OF URBAN DESIGN  
**CONSTRUCTION PLAN**  
 RAMP A  
 CUMMING  
 PARK AND RIDE LOT



Curve Data	
M	= 27.38' 54.2" (LT)
D	= 7.09' 43.1"
T	= 196.80
L	= 186.04
E	= 51.46
R	= 800.00
PI STA	= 309+00.00
PI T	= 230512.1080
PI Y	= 1521317.6230

PROPERTY AND EXISTING R/W LINE ---R---  
 REQUIRED R/W LINE ---G---  
 CONSTRUCTION LIMITS ---G---  
 EASEMENT FOR CONSTRUCTION & MAINTENANCE OF SLOPES [Hatched Box]  
 EASEMENT FOR CONSTR OF SLOPES [Cross-hatched Box]  
 EASEMENT FOR CONSTR OF DRIVES [Cross-hatched Box]

BEGIN LIMIT OF ACCESS .....BLA  
 END LIMIT OF ACCESS .....ELA  
 LIMIT OF ACCESS ---G---  
 R/W AND LIMIT OF ACCESS ---G---

**URS**

400 NORTH PARK TOWN CENTER  
 1000 ABERNATHY RD., N.E.  
 SUITE 900  
 ATLANTA, GA. 30328  
 TEL: (678) 808-9800 FAX: (678) 808-8400



REVISION DATES	

STATE OF GEORGIA  
 DEPARTMENT OF TRANSPORTATION  
 OFFICE OF URBAN DESIGN  
**CONSTRUCTION PLAN  
 OLD ATLANTA ROAD**  
 CUMMING  
 PARK AND RIDE LOT



U.S. Department  
of Transportation

**Federal Highway  
Administration**

61 Forsyth Street, S.W.  
Suite 17T100  
Atlanta, Georgia 30303

In Reply Refer To:  
HTM-GA

## Georgia Division

May 24, 2006

Mr. Harold Linnenkohl, Commissioner  
Georgia Department of Transportation  
No. 2 Capitol Square, S.W.  
Atlanta, Georgia 30334-1002

Attn: Margaret B. Pirkle, P.E., Assistant Director of Preconstruction

Subject: Conditional Revised Concept Approval for MSL-0007-00(687), Cumming Park and Ride Lot, Forsyth County

Dear Mr. Linnenkohl:

In response to your submission of the subject revised project concept report, we have approved the Concept provided the Department addresses the following comments prior to submitting a PS&E to our office:

- It is our understanding that the access point to the facility for buses from the SR 400 SB on-ramp is temporary and will be eliminated once a future project is completed by providing access to and from the facility from an access point from SR 400 to the Old Atlanta Road bridge crossing over SR 400. It is our understanding that GDOT will pursue the development and construction of this access point once suitable features along SR 400 are in place to allow the useful operation of this facility.
- The proposed parallel type scheme for the ramp layout shown in the revised concept report needs to be revised. We have worked with your staff and GRTA to promptly resolve this ramp design issue. Please note that the attached signing/marketing sheet indicating a striped taper-type ramp from the SB SR 400 on-ramp is the basis of our approval for this revised concept. Please ensure that the attached design is implemented during the construction of this project.

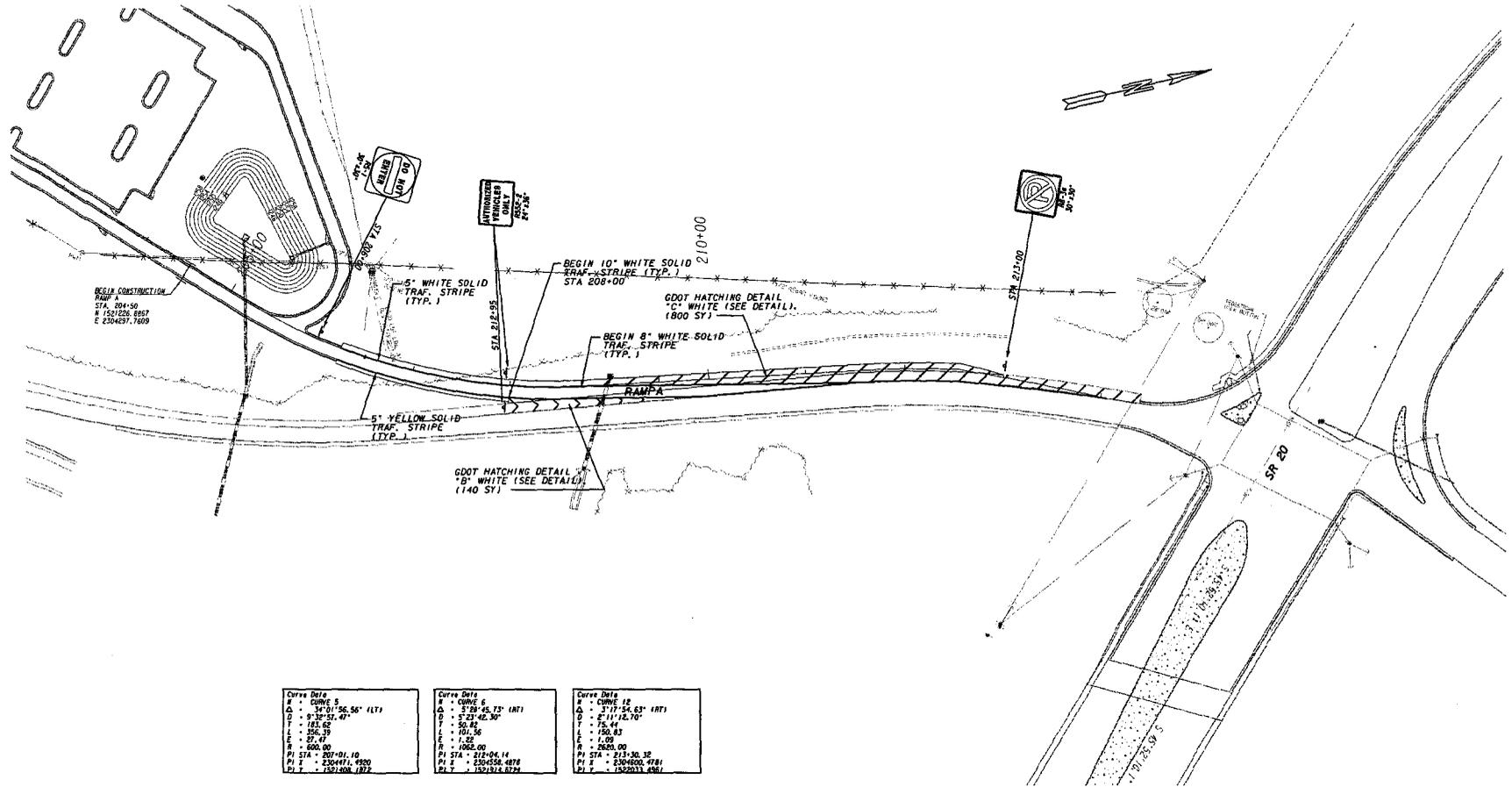


If you have any questions regarding these comments, please contact George W. Merritt at (404)-562-3655.

Sincerely,

A handwritten signature in cursive script, appearing to read "Robert M. Callan".

For: Robert M. Callan, P.E.  
Division Administrator



<p>Curve Data</p> <p># = CURVE 5</p> <p>Δ = 31°01'56.66" (L/R)</p> <p>D = 9'32" ST. 47'</p> <p>T = 163.62</p> <p>L = 156.39</p> <p>E = 25.43</p> <p>R = 200.00</p> <p>PI STA = 207+01.10</p> <p>PI X = 230471.950</p> <p>PI Y = 1591808.1872</p>	<p>Curve Data</p> <p># = CURVE 6</p> <p>Δ = 5°29'46.23" (L/R)</p> <p>D = 5'23" 42.30"</p> <p>T = 36.42</p> <p>L = 101.56</p> <p>E = 1.32</p> <p>R = 1066.00</p> <p>PI STA = 212+04.11</p> <p>PI X = 230456.4878</p> <p>PI Y = 1592912.6724</p>	<p>Curve Data</p> <p># = CURVE 10</p> <p>Δ = 2°11'54.63" (L/R)</p> <p>D = 2'11" 12.70"</p> <p>T = 75.47</p> <p>L = 150.83</p> <p>E = 1.00</p> <p>R = 2600.00</p> <p>PI STA = 213+30.35</p> <p>PI X = 230460.4781</p> <p>PI Y = 1592913.4861</p>
--	--	---

PROPERTY AND EXISTING R/W LINE ———— E ————  
 REQUIRED R/W LINE ———— G ———— F ————  
 CONSTRUCTION LIMITS  
 EASEMENT FOR CONSTRUCTION  
 & 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  
 R/W AND LIMIT OF ACCESS



400 NORTH PARK TOWN CENTER  
 1000 ABERNATHY RD., N.E.  
 SUITE 900  
 ATLANTA, GA. 30328  
 TEL: (678) 808-8800 FAX: (678) 808-8400



REVISION DATES


STATE OF GEORGIA  
 DEPARTMENT OF TRANSPORTATION  
 OFFICE OF URBAN DESIGN

SIGNING AND MARKING PLAN  
 RAMP A

CUMMING  
 PARK AND RIDE LOT