

**BRIDGE CONSISTS OF**

- 1 - 153'-0" BULB TEE, 74 IN, PSC BEAM SPANS ----- SPECIAL DESIGN
- 1 - 135'-0" BULB TEE, 72 IN, PSC BEAM SPANS WITH BULB TEE, 74 IN, PSC FASCIA BEAMS ----- SPECIAL DESIGN
- 1 - 82'-0" TYPE III PSC BEAM SPANS WITH BULB TEE, 74 IN, PSC FASCIA BEAMS ----- SPECIAL DESIGN
- 2 - STEEL H PILE END BENTS ----- SPECIAL DESIGN
- 2 - CONCRETE INTERMEDIATE BENTS ----- SPECIAL DESIGN
- 4 - END POST AND GUARDRAIL ATTACHMENT DETAIL ----- GA. STD. 3054 (9-30-02) (L = 4'-0"; W = 1'-1"; H = 3'-6")
- BAR BENDING DETAILS ----- GA. STD. 3901 (8-69)
- CONCRETE BARRIERS - TEMPORARY ----- GA. STD. 4960 (2-1-01)
- DETAILS OF PRECAST TEMPORARY BARRIERS ----- GA. STD. 4961 (5-2-01)
- CHAIN LINK WIRE FENCE ----- GA. STD. 9031N (8-13-85)

**GENERAL NOTES**

SPECIFICATIONS - GEORGIA STANDARD SPECIFICATIONS, 2001 EDITION, AND 2008 SUPPLEMENTAL SPECIFICATIONS AS MODIFIED BY CONTRACT DOCUMENTS.

SHOP DRAWINGS - WHEN SUBMITTING SHOP DRAWINGS FOR THIS PROJECT TO THE DOT GENERAL OFFICE, SUBMIT THEM TO THE OFFICE OF BRIDGE DESIGN.

REINFORCING STEEL - PLACE AND TIE ALL REINFORCING STEEL IN ACCORDANCE WITH THE GEORGIA DOT SPECIFICATIONS. DO NOT WELD REINFORCING STEEL.

CHAMFER - CHAMFER ALL EXPOSED CONCRETE EDGES 3/4" UNLESS OTHERWISE NOTED.

PROTECTIVE PLATFORMS - PROVIDE PROTECTIVE PLATFORMS AT THIS SITE, SEE SECTION 510 OF THE GEORGIA DOT SPECIFICATIONS. MAINTAIN A MINIMUM VERTICAL CLEARANCE OF 17'-0" ABOVE SR 400.

TEMPORARY SHORING - INCLUDE THE COST OF TEMPORARY SHORING AS NECESSARY FOR BRIDGE CONSTRUCTION IN THE OVERALL BID SUBMITTED.

TEMPORARY BARRIERS, METHOD 2 - PLACE TEMPORARY BARRIERS AS SHOWN ON THE PLANS AND GEORGIA STANDARD NO. 4960 TO PROVIDE FOR 4 10'-0" TRAFFIC LANES IN STAGE I AND 4 11'-0" TRAFFIC LANES IN STAGE II. SUPPLY AND USE THE BARRIER IN ACCORDANCE WITH SPECIAL PROVISION SECTION 620.

TRAFFIC CONTROLS - SEE ROADWAY PLANS FOR TRAFFIC CONTROLS AND TRAFFIC CONTROL PAYMENT.

EXISTING BRIDGE PLANS - ORIGINAL BRIDGE PLANS MAY BE PURCHASED BY CONTACTING THE PLANS REPRODUCTION OFFICE AT (404) 347-0600. THE ORIGINAL BRIDGE WAS BUILT UNDER PROJECT NUMBER APD-056-1(10) CT.2 AND WAS WIDENED UNDER PROJECT NUMBER M-9255(1).

EPOXY RESIN ADHESIVE - APPLY EPOXY RESIN ADHESIVE TYPE II TO ALL HARDENED CONCRETE SURFACES JUST PRIOR TO POURING THE CONCRETE FOR THE NEXT STAGE OF CONSTRUCTION, SEE SECTION 886 OF THE GEORGIA DOT SPECIFICATIONS. INCLUDE THE COST OF EPOXY ADHESIVE AND ITS APPLICATION IN THE OVERALL BID SUBMITTED.

WAITING PERIOD - NONE REQUIRED.

PLAN DRIVING OBJECTIVE - SEE SUBSTRUCTURE DETAILS.

PILE POINTS - REINFORCE ALL PILE TIPS AT BENT 4 IN ACCORDANCE WITH SECTIONS 520 AND 855 OF THE GEORGIA DOT SPECIFICATIONS.

DRIVING DATA PILES - ONE DRIVING DATA PILE SHALL BE REQUIRED AT BENT 2.

SMOOTH DOWEL BARS - PLACE SMOOTH DOWEL BARS IN FORMED 3" DIAMETER X 12" DEEP HOLES AND GROUT IN PLACE SIMILAR TO ANCHOR BOLTS, SEE SUB-SECTION 501.3.05.B.3 OF THE GEORGIA DOT SPECIFICATIONS. STIRRUPS MAY BE SHIFTED SLIGHTLY TO CLEAR FORMED HOLES.

UTILITY HANGERS - FURNISH AND INSTALL INSERTS AND HANGER ASSEMBLIES. INSERTS SHALL BE ANVIL FIGURE 282, AAA TECHNOLOGY FIGURE 912, OR APPROVED EQUAL. INCLUDE THE COST OF FURNISHING AND INSTALLING INSERTS AND HANGERS IN THE OVERALL BID SUBMITTED. EXISTING HANGER ASSEMBLIES MAY BE REUSED.

WATER/SEWER MAIN HANGERS - PIPE ROLL SUPPORT ASSEMBLIES AND KEEPER STRAPS SHALL BE FURNISHED AND INSTALLED BY THE UTILITY OWNER. FURNISH AND INSTALL ALL OTHER COMPONENTS OF HANGER ASSEMBLIES AND INCLUDE THE COST IN THE OVERALL BID SUBMITTED.

STANDARD PLAN MODIFICATION - MODIFY THE APPROACH SLAB STANDARD TO INCREASE THE 3/4" EXPANSION JOINT SHOWN BETWEEN THE APPROACH SLAB AND THE BACK FACE PAVING REST AND END POST TO 1 1/4". SEE ROADWAY PLANS FOR APPROACH SLAB PAYMENT.

GROOVED CONCRETE - GROOVE THE ENTIRE LENGTH OF THE BRIDGE TRANSVERSELY AS PER SUB-SECTION 500.3.05.T.9.C OF THE GEORGIA DOT SPECIFICATIONS.

RIDING QUALITY - THE FINISHED BRIDGE DECK AND APPROACH SLABS SHALL MEET THE RIDE QUALITY REQUIREMENTS AS SPECIFIED IN SUB-SECTION 500.3.06.E OF THE GEORGIA DOT SPECIFICATIONS FOR STATE ROUTES WITH FOUR LANES OR MORE.

CHAIN LINK FENCE - CHAIN LINK FENCE SHALL BE PAID FOR AS "LF CH LK FENCE, ZC COAT, 6 FT, 9 GA".

WELDING - ALL WELDING ON GEORGIA DOT PROJECTS SHALL BE PERFORMED BY CERTIFIED WELDERS THAT HAVE IN THEIR POSSESSION A CURRENT WELDING CERTIFICATION CARD ISSUED BY THE OFFICE OF MATERIALS AND RESEARCH. USE ONLY E70XX (EXCLUDING E7014 AND E7024) LOW HYDROGEN ELECTRODES FOR MANUAL SHIELDED METAL ARC WELDING.

SALVAGE OF EXISTING BRIDGE MATERIALS - THE EXISTING ALUMINUM HANDRAIL IS TO BE SALVAGED, DISASSEMBLED, AND TRANSPORTED TO THE DISTRICT 7 MAINTENANCE OFFICE. UNLOADING OF THE SALVAGED COMPONENTS WILL BE PERFORMED BY THE CONTRACTOR. NOTIFY THE ASSISTANT DISTRICT ENGINEER, MAINTENANCE, DISTRICT 7 ONE WEEK PRIOR TO DELIVERY.

INCIDENTAL ITEMS - INCLUDE THE COST INCIDENTAL TO THE WORK THAT IS NOT SPECIFICALLY COVERED BY THE GEORGIA STANDARD SPECIFICATIONS, SUPPLEMENTAL SPECIFICATIONS AND/OR SPECIAL PROVISIONS IN THE OVERALL BID SUBMITTED. THIS INCLUDES THE COST OF WATERPROOFING, JOINT FILLERS, AND OTHER INCIDENTAL ITEMS NECESSARY TO COMPLETE THE WORK.

RELEASED FOR CONSTRUCTION  
11-04-2009

**SUMMARY OF QUANTITIES**  
(FOR INFORMATION ONLY)

PAY ITEM NUMBER	QUANTITY	UNIT	PAY ITEM
211-0200	285	CY	BRIDGE EXCAVATION, GRADE SEPARATION
500-0100	4851	SY	GROOVED CONCRETE
500-1006	LUMP	LS	SUPERSTR CONCRETE, CL AA, BR NO - 1 (1717)
500-3002	471	CY	CLASS AA CONCRETE
507-9003	1455	LF	PSC BEAMS, AASHTO TYPE III, BR NO - 1
507-9032	2418	LF	PSC BEAMS, AASHTO, BULB TEE, 72 IN, BR NO - 1
507-9033	3467	LF	PSC BEAMS, AASHTO, BULB TEE, 74 IN, BR NO - 1
511-1000	97654	LB	BAR REINF STEEL
511-3000	LUMP	LS	SUPERSTR REINF STEEL, BR NO - 1 (312475)
520-0353	20	EA	H-PILE POINTS, HP 12 X 53
520-1125	1365	LF	PILING IN PLACE, STEEL H, HP 12 X 53
520-1147	1175	LF	PILING IN PLACE, STEEL H, HP 14 X 73
520-1151	1075	LF	PILING IN PLACE, STEEL H, HP 14 X 89
520-1173	910	LF	PILING IN PLACE, STEEL H, HP 14 X 102
520-4125	1	EA	LOAD TEST, STEEL H, HP 12 X 53 (IF REQD)
520-4147	1	EA	LOAD TEST, STEEL H, HP 14 X 73 (IF REQD)
520-4151	1	EA	LOAD TEST, STEEL H, HP 14 X 89 (IF REQD)
520-4173	1	EA	LOAD TEST, STEEL H, HP 14 X 102 (IF REQD)
540-1102	LUMP	LS	REMOVAL OF EXISTING BR, BR NO - 1
620-0200	370	LF	PRECAST CONCRETE MEDIAN BARRIER, METHOD 2
643-1152	718	LF	CH LK FENCE, ZC COAT, 6 FT, 9 GA

**DESIGN DATA**

SPECIFICATIONS ----- AASHTO 17TH EDITION, 2002 (DESIGNED FOR SEISMIC PERFORMANCE CATEGORY A)

TYPICAL HS20-44 AND/OR MILITARY LOADING ----- IMPACT ALLOWED

FUTURE PAVING ALLOWANCE ----- 30 LBS PER SQ FT

CONCRETE: SUPERSTRUCTURE ----- CLASS AA,  $f_c = 3,500$  PSI  
PSC BEAMS ----- CLASS AAA,  $f_c =$  SEE BEAM SHEETS  
PSC BEAM ALLOWABLE TENSION ----- SEE BEAM SHEETS  
SUBSTRUCTURE ----- CLASS AA,  $f_c = 3,500$  PSI

REINFORCEMENT STEEL: ----- GRADE 60,  $f_y = 60,000$  PSI

PRETENSIONING STRANDS: -----  $f_p = 270,000$  PSI

**TRAFFIC DATA**

TRAFFIC ----- ADT = 34,050 (2008)  
ADT = 35,500 (2012)

DESIGN SPEED ----- 35 MPH

TRUCKS ----- 4 %

24 HR TRUCKS ----- 5 %

DIRECTIONAL ----- 60 %

**UTILITIES**

**EXISTING UTILITIES**

- 1 - 2 INCH DIAMETER GAS MAIN ----- ATLANTA GAS LIGHT COMPANY
- 2 - 8 INCH DIAMETER FIBERGLASS CONDUIT ----- AGL/VERIZON
- 1 - 12 INCH DIAMETER WATER MAIN ----- CITY OF ATLANTA
- 6 - 4 INCH DIAMETER TELEPHONE CONDUITS ----- AT&T
- 2 - 2.5 INCH DIAMETER CONDUIT ----- GEORGIA TOLL AUTHORITY

**PROPOSED UTILITIES**

- 1 - 4 INCH DIAMETER GAS MAIN ----- ATLANTA GAS LIGHT COMPANY
- 4 - 4 INCH DIAMETER CONDUIT ----- VERIZON
- 1 - 12 INCH DIAMETER WATER MAIN ----- CITY OF ATLANTA
- 6 - 4 INCH DIAMETER TELEPHONE CONDUITS ----- AT&T
- 12 - 6 INCH DIAMETER CONDUIT ----- GEORGIA POWER COMPANY
- 2 - 8 INCH DIAMETER CONDUIT ----- ATL GAS LIGHT NETWORK
- 2 - 4 INCH DIAMETER CONDUIT ----- TIME WARNER
- 4 - 2 INCH DIAMETER CONDUIT ----- CITY OF SANDY SPRINGS

DRAWING NO.  
35-02

BRIDGE NO. 1

THE LPA GROUP  
**LPA**  
THE LPA GROUP INCORPORATED  
TRANSPORTATION CONSULTANTS  
3535 ENGINEERING DRIVE  
NORCROSS, GEORGIA 30092  
(770) 263-9118

GEORGIA  
**DEPARTMENT OF TRANSPORTATION**  
PRECONSTRUCTION DIVISION-OFFICE OF BRIDGE DESIGN

GENERAL NOTES  
HAMMOND DRIVE OVER SR 400  
FULTON COUNTY CSNHS-0008-00(415)

NO SCALE NOVEMBER 2009

BRIDGE SHEET 2 OF 25	BY	DATE	DESIGNED ANZ	CHECKED AWB	REVIEWED WEI/WMD
			DRAWN BSB	DESIGN GROUP ACB	APPROVED PVL

REVISIONS