

BRIDGE CONSISTS OF

- 2 - 60'-0" TYPE II PSC BEAM SPANS WITH BULB TEE, 74 IN, PSC FASCIA BEAMS ----- SPECIAL DESIGN
- 1 - 143'-0" BULB TEE, 74 IN, PSC BEAM SPAN ----- SPECIAL DESIGN
- 1 - 145'-0" BULB TEE, 74 IN, PSC BEAM SPAN ----- SPECIAL DESIGN
- 2 - PSC PILE END BENTS ----- SPECIAL DESIGN
- 3 - 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")
(L = 6'-0"; W = 1'-1"; H = 3'-6")
(L = 6'-6"; W = 1'-1"; H = 3'-6")
- SQUARE PRESTRESSED CONCRETE PILES ----- GA. STD. 3215 (2-22-84)
- BAR BENDING DETAILS ----- GA. STD. 3901 (8-69)
- CONCRETE BARRIERS - TEMPORARY ----- GA. STD. 4960 (5-10-07)
- DETAILS OF PRECAST TEMPORARY BARRIERS ----- GA. STD. 4961 (9-8-06)
- CHAIN LINK WIRE FENCE ----- GA. STD. 9031N (8-13-85)
- TYPICAL FILL DETAIL AT END OF BRIDGE ----- GA. STD. 9037 (9-99)

TRAFFIC DATA

- TRAFFIC ----- ADT = 7,800 (2016)
ADT = 12,000 (2036)
- DESIGN SPEED ----- 45 MPH
- TRUCKS ----- 11.5 %
- 24 HR TRUCKS ----- 13.5 %
- DIRECTIONAL ----- 50 %

UTILITIES

NO UTILITIES ON BRIDGE

GENERAL NOTES

- SPECIFICATIONS - GEORGIA STANDARD SPECIFICATIONS, 2013 EDITION, AS MODIFIED BY CONTRACT DOCUMENTS.
- 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 I-95.
- TEMPORARY SHORING - INCLUDE THE COST OF TEMPORARY SHORING AS NECESSARY FOR BRIDGE CONSTRUCTION IN THE OVERALL BID SUBMITTED.
- TEMPORARY BARRIERS, METHOD I - PLACE TEMPORARY BARRIERS AS SHOWN ON THE PLANS AND GEORGIA STANDARD NOS. 4960 AND 4961 TO PROVIDE FOR 2 - 11'-0" TRAFFIC LANES. SUPPLY AND USE THE BARRIER IN ACCORDANCE WITH SECTION 620 OF THE GEORGIA DOT SPECIFICATIONS.
- TRAFFIC CONTROLS - SEE ROADWAY PLANS FOR TRAFFIC CONTROLS AND TRAFFIC CONTROL PAYMENT.
- EXISTING BRIDGE PLANS - ORIGINAL BRIDGE PLANS MAY BE PURCHASED BY SUBMITTING A REQUEST ON THE GEORGIA DOT WEBSITE AT:
[HTTP://WWW.DOT.GA.GOV/DOINGBUSINESS/RESEARCH/PAGES/ROADDESIGNSEARCH.ASPX](http://www.dot.ga.gov/doingbusiness/research/pages/roaddesignsearch.aspx)
THE ORIGINAL BRIDGE WAS BUILT UNDER PROJECT NUMBER I-95-1(7)49 (PROJECT ID NO. H006894).

GENERAL NOTES (CONT'D)

- 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.
 - FOUNDATION BACKFILL MATERIAL - PLACE 1'-0" OF TYPE II FOUNDATION BACKFILL MATERIAL UNDER EACH FOOTING AT BENTS 2, 3, AND 4. THE QUANTITY IS BASED ON THE PLAN FOOTING DIMENSIONS PLUS 2'-0".
 - PLAN DRIVING OBJECTIVE - SEE SUBSTRUCTURE DETAILS.
 - PILOT HOLES - DRILL AN 18" DIAMETER PILOT HOLE TO A MINIMUM ELEVATION OF 10.00 AT BENT 1 FOR EACH PILE AND TO A MINIMUM ELEVATION OF 22.00 AT BENT 5 FOR EACH PILE. TEMPORARY CASING MAY BE REQUIRED TO PREVENT THE COLLAPSE OF PILOT HOLES PRIOR TO DRIVING PILES.
 - PILE DRIVING - SHOULD PILES FAIL TO OBTAIN DRIVING RESISTANCE AFTER ACHIEVING THE PILE TIP ELEVATIONS SHOWN, ALLOW PILES TO FREEZE A MINIMUM OF 24 HOURS AND RESTRIKE WITH A WARM HAMMER.
- | BENT NUMBER | PILE TIP ELEVATION |
|-------------|--------------------|
| 1 | -18.00 |
| 2 | -14.00 |
| 3 | -14.00 |
| 4 | -14.00 |
| 5 | -13.00 |
- TEST PILES - DRIVE TEST PILES AT THE FOLLOWING LOCATIONS:
ONE 18 IN SQ PSC X 42 FT AT BENT 2
ONE 18 IN SQ PSC X 41 FT AT BENT 4
ONE 16 IN SQ PSC X 65 FT AT BENT 5
 - 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.
 - 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.
 - 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 TESTING. USE ONLY E70XX (EXCLUDING E7014 AND E7024) LOW HYDROGEN ELECTRODES FOR MANUAL SHIELDED METAL ARC WELDING.
 - SALVAGE OF EXISTING BRIDGE MATERIALS - ALUMINUM HANDRAIL AND POSTS ARE TO BE SALVAGED, DISASSEMBLED, AND TRANSPORTED TO THE DISTRICT 5 STORAGE AREA. UNLOAD THE SALVAGED COMPONENTS AS DIRECTED BY GEORGIA DOT PERSONNEL. NOTIFY THE DISTRICT 5 ENGINEER, CHAD HARTLEY, TWO WEEKS PRIOR TO DELIVERY. THE ALUMINUM HANDRAIL AND POSTS SHALL NOT BE CUT.
 - 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.

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

DESIGN DATA (CONT'D)

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

SUMMARY OF QUANTITIES

PAY ITEM NUMBER	QUANTITY	UNIT	PAY ITEM
207-0203	81	CY	FOUND BKFILL MATL, TP II
211-0200	514	CY	BRIDGE EXCAVATION, GRADE SEPARATION
441-0004	1283	SY	CONC SLOPE PAV, 4 IN
500-0100	2629	SY	GROOVED CONCRETE
500-1006	LUMP	LS	SUPERSTR CONCRETE, CL AA, BR NO - 1 (1241)
500-3002	805	CY	CLASS AA CONCRETE
507-9002	1155	LF	PSC BEAMS, AASHTO TYPE II, BR NO - 1
507-9033	3641	LF	PSC BEAMS, AASHTO, BULB TEE, 74 IN, BR NO - 1
511-1000	118136	LB	BAR REINF STEEL
511-3000	LUMP	LS	SUPERSTR REINF STEEL, BR NO - 1 (220006)
520-2216	1965	LF	PILING, PSC, 16 IN SQ
520-2218	3510	LF	PILING, PSC, 18 IN SQ
520-3216	1	EA	TEST PILE, PSC, 16 IN SQ
520-3218	2	EA	TEST PILE, PSC, 18 IN SQ
520-4216	1	EA	LOAD TEST, PSC, 16 IN SQ (IF REQD)
520-4218	1	EA	LOAD TEST, PSC, 18 IN SQ (IF REQD)
520-5000	860	LF	PILOT HOLES
540-1101	LUMP	LS	REMOVAL OF EXISTING BR, STA NO - 132+60
620-0100	408	LF	TEMPORARY BARRIER, METHOD NO. 1
643-1152	797	LF	CH LK FENCE, ZC COAT, 6 FT, 9 GA

BRIDGE NO. 1

 THE LPA GROUP	THE LPA GROUP INCORPORATED TRANSPORTATION CONSULTANTS <small>3595 ENGINEERING DRIVE NORCROSS, GEORGIA 30092 (770) 683-9118</small>
GEORGIA DEPARTMENT OF TRANSPORTATION ENGINEERING DIVISION-OFFICE OF BRIDGES AND STRUCTURES	
GENERAL NOTES SR 251 OVER I-95 MCINTOSH COUNTY CSNHS-0007-00(42)	
NO SCALE NOVEMBER 2013	
DESIGNED JCR DRAWN JCR	CHECKED ANZ DESIGN GROUP LAIII
REVIEWED WMD/DLC APPROVED BFR	

DATE	BY	REVISIONS

DRAWING NO. 35-002
BRIDGE SHEET 2 OF 26