BRIDGE CONSISTS OF

7 - 136'-0" BULB TEE, 74 IN, PSC BEAM SPANS ---------- SPECIAL DESIGN

2 - STEEL H PILE END BENTS ---------- SPECIAL DESIGN

6 - 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)

TYPICAL FILL DETAIL AT END OF BRIDGE ---------- GA. STD. 9037 (9-99)

DRAINAGE DATA

DRAINAGE AREA ---------- 476 SQ MILES

FLOOD FREQUENCY	TOTAL DISCHARGE	MEAN VELOCITY	AREA OF OPENING UNDER FLOODSTAGE	BACKWATER
50 YEAR	39700 CFS	1.61 FPS	24675 SQ FT	0.00 FT
100 YEAR	44900 CFS	1.82 FPS	24680 SQ FT	0.01 FT
500 YEAR	59050 CFS	2.39 FPS	24685 SQ FT	0.01 FT

TRAFFIC DATA

TRAFFIC ---------- ADT = 8800 (2013)
ADT = 12600 (2033)

DESIGN SPEED ---------- 45 MPH

TRUCKS ---------- 3.5 %

24 HR TRUCKS ---------- 4.0 %

DIRECTIONAL ---------- 60 %

UTILITIES

2 - TELEPHONE CONDUITS ---------- AT&T

1 - 16 INCH DIAMETER WATER MAIN ---------- CITY OF GAINESVILLE

2 - 16 INCH DIAMETER SEWER MAIN ---------- CITY OF GAINESVILLE

EXISTING UTILITIES

TELEPHONE CONDUITS ---------- AT&T

WATER MAIN ---------- CITY OF GAINESVILLE

GENERAL NOTES

SPECIFICATIONS - GEORGIA STANDARD SPECIFICATIONS, 2001 EDITION, AND 2008 SUPPLEMENTAL SPECIFICATIONS 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.

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 PR 1548.

WAITING PERIOD - DO NOT BEGIN WORK AT BENTS 1 AND 8 UNTIL THE COMPLETED END FILLS HAVE BEEN IN PLACE FOR AN ESTIMATED PERIOD OF 45 DAYS.

PLAN DRIVING OBJECTIVE - SEE SUBSTRUCTURE DETAILS

DRIVING DATA PILES - ONE DRIVING DATA PILE SHALL BE REQUIRED AT EACH OF BENTS 1 AND 8.

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 CONCRETE INSERTS FOR TELEPHONE CONDUIT. USE ANVIL FIGURE 282, AAA TECHNOLOGY FIGURE 912 OR APPROVED EQUAL CONCRETE INSERTS. INCLUDE THE COST OF FURNISHING AND INSTALLING CONCRETE INSERTS IN THE OVERALL BID SUBMITTED. ALL OTHER COMPONENTS OF HANGER ASSEMBLIES SHALL BE FURNISHED AND INSTALLED BY UTILITY OWNER.

WATER/SEWER MAIN HANGERS - FURNISH AND INSTALL PIPE ROLL SUPPORT ASSEMBLIES, KEEPER STRAPS, AND ALL OTHER COMPONENTS OF HANGER ASSEMBLIES AND INCLUDE THE COST IN LUMP SUM STRUCTURAL STEEL. DO NOT FILL PIPES WITH WATER BEFORE DECK HAS CURED.

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" AT BENT 1. 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.

HIGH PERFORMANCE CONCRETE (HPC) - PRESTRESSED CONCRETE BEAMS FOR THIS BRIDGE UTILIZE HIGH PERFORMANCE CONCRETE. SPECIAL REQUIREMENTS ARE REQUIRED AS DETAILED IN SPECIAL PROVISION SECTIONS 500 AND 865. HPC BEAMS WILL BE PAID FOR AS PSC BEAMS, AASHTO, BULB TEE, 74 IN.

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 STRUCTURAL STEEL - ALL STRUCTURAL STEEL IS TO BE SALVAGED, DISASSEMBLED, AND TRANSPORTED TO THE DISTRICT 1 STORAGE AREA LOCATED IN JEFFERSON, GA. UNLOAD THE EXISTING STRUCTURAL STEEL AS DIRECTED BY GEORGIA DOT PERSONNEL. NOTIFY THE ASSISTANT DISTRICT ENGINEER, MAINTENANCE, DISTRICT 1 TWO WEEKS 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.

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'_s = 270,000 PSI

SUMMARY OF QUANTITIES

PAY ITEM NUMBER	QUANTITY	UNIT	PAY ITEM
500-0100	4020	SY	GROOVED CONCRETE
500-1006	LUMP	LS	SUPERSTR CONCRETE, CL AA, BR NO - 1 (1350)
500-2100	1892	LF	CONCRETE BARRIER
500-3002	283	CY	CLASS AA CONCRETE
501-3000	LUMP	LS	STR STEEL, BR NO - 1 (44907)
507-9033	4726	LF	PSC BEAMS, AASHTO, BULB TEE, 74 IN, BR NO - 1
511-1000	56671	LB	BAR REINF STEEL
511-3000	LUMP	LS	SUPERSTR REINF STEEL, BR NO - 1 (310073)
520-1173	1015	LF	PILING IN PLACE, STEEL H, HP 14 X 102
520-4173	1	EA	LOAD TEST, STEEL H, HP 14 X 102 (IF REQD)
524-0010	756	LF	DRILLED CAISSON - 66 IN
524-0010	378	LF	DRILLED CAISSON - 78 IN
540-1101	LUMP	LS	REMOVAL OF EXISTING BR, STA NO - 40+00
544-1000	LUMP	LS	DECK DRAIN SYSTEM, BR NO - 1
603-2024	2132	SY	STN DUMPED RIP RAP, TP 1, 24 IN
603-7000	2132	SY	PLASTIC FILTER FABRIC

BRIDGE NO. 1

GEORGIA
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION-OFFICE OF BRIDGES AND STRUCTURES

REVISIONS | BY | DATE

GENERAL NOTES
SR 284 OVER CHATTAHOOCHEE RIVER
HALL COUNTY BRST0-2424-00(003)

DRAWING NO. 35-02
BRIDGE SHEET 2 OF 17

NO SCALE JANUARY 2012

DESIGNED DLW | CHECKED JRT | REVIEWED WEI/WMD
DRAWN DLW | DESIGN GROUP EJC | APPROVED BFR

1 INCH WHEN PRINTED FULL SIZE

y:\Projects\Hall 142291\Bridge Plans\142291br plans.dgn
9:14:24 AM
1/26/2012