BRIDGE CONSISTS OF

4 - 40'-0" TYPE I MOD PSC BEAM SPANS ---------- SPECIAL DESIGN

2 - PSC PILE END BENTS ---------- SPECIAL DESIGN

3 - PSC PILE INTERMEDIATE BENTS ---------- SPECIAL DESIGN

4 - END POST AND GUARDRAIL ATTACHMENT DETAIL -------- GA. STD. 3054 (9-30-02)
(L = 4'-0"; W = 1'-1"; H = 2'-8")

SQUARE PRESTRESSED CONCRETE PILES ---------- GA. STD. 3215 (2-22-84)

BAR BENDING DETAILS ---------- GA. STD. 3901 (8-69)

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

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 = 5,500 PSI
PSC BEAM ALLOWABLE TENSION ---------- 445 PSI
SUBSTRUCTURE ---------- CLASS A, f'_c = 3,000 PSI

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

PRETENSIONING STRANDS: ---------- f'_s = 270,000 PSI

DRAINAGE DATA

DRAINAGE AREA ---------- 8.5 SQ MILES

FLOOD FREQUENCY	DISCHARGE	AREA OF OPENING UNDER FLOODSTAGE	MEAN VELOCITY	BACKWATER
25 YEAR	870 CFS	312 SQ FT	2.79 FPS	0.77 FT
100 YEAR	1,250 CFS	380 SQ FT	3.29 FPS	0.97 FT
500 YEAR	1,760 CFS	454 SQ FT	3.88 FPS	1.21 FT

TRAFFIC DATA

TRAFFIC ---------- ADT = 540 (2010)
ADT = 805 (2030)

DESIGN SPEED ---------- 55 MPH

TRUCKS ---------- 10 %

24 HR TRUCKS ---------- 12 %

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

EXISTING UTILITIES

TELEPHONE CONDUITS (TO BE REMOVED) ---------- BELLSOUTH

UTILITIES

NONE

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 - ROAD TO BE CLOSED DURING BRIDGE CONSTRUCTION. 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 S-1493(1).

WAITING PERIOD - NONE REQUIRED.

PLAN DRIVING OBJECTIVE - SEE SUBSTRUCTURE DETAILS.

PILING - JETTING OR SPUDDING OF PSC PILING MAY BE NECESSARY AT THIS SITE TO ACHIEVE THE INDICATED PLAN DRIVING OBJECTIVE AT BENTS 2 THRU 4. AT CONTRACTOR'S OPTION, USE PREDRILLING IN LIEU OF JETTING OR SPUDDING. SEE TABLE BELOW FOR THE EXTENT OF PREDRILLING. SEE SECTION 520 OF THE GEORGIA DOT SPECIFICATIONS.

BENT	PILE SIZE	MAX. PRE-DRILL HOLE SIZE	ELEVATION
2	16" PSC	18"	117.0
3	16" PSC	18"	106.0
4	16" PSC	18"	117.0

TEST PILES - DRIVE TEST PILES AT THE FOLLOWING LOCATIONS:
ONE 14 IN SQ PSC X 27 FT AT BENT 1
ONE 16 IN SQ PSC X 25 FT AT BENT 4

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.

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.

PSC BEAMS - PRESTRESSED CONCRETE AASHTO TYPE I MODIFIED BEAMS SHALL BE PAID FOR AS "LF PSC BEAMS, AASHTO TYPE I".

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 MATERIAL - NO MATERIAL REMOVED FROM THE EXISTING STRUCTURE SHALL BE SALVAGED FOR USE BY THE GEORGIA DOT.

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.

SUMMARY OF QUANTITIES

PAY ITEM NUMBER	QUANTITY	UNIT	PAY ITEM
500-0100	498	SY	GROOVED CONCRETE
500-1006	LUMP	LS	SUPERSTR CONCRETE, CL AA, BR NO - 1 (152)
500-2100	308	LF	CONCRETE BARRIER
500-3101	45	CY	CLASS A CONCRETE
507-9001	626	LF	PSC BEAMS, AASHTO TYPE I, BR NO - 1
511-1000	5308	LB	BAR REINF STEEL
511-3000	LUMP	LS	SUPERSTR REINF STEEL, BR NO - 1 (44249)
520-2214	155	LF	PILING, PSC, 14 IN SQ
520-2216	265	LF	PILING, PSC, 16 IN SQ
520-3214	1	EA	TEST PILE, PSC, 14 IN SQ
520-3216	1	EA	TEST PILE, PSC, 16 IN SQ
520-4214	1	EA	LOAD TEST, PSC, 14 IN SQ (IF REQD)
520-4216	1	EA	LOAD TEST, PSC, 16 IN SQ (IF REQD)
540-1101	LUMP	LS	REMOVAL OF EXISTING BR, STA NO - 23+80
603-2024	320	SY	STN DUMPED RIP RAP, TP 1, 24 IN
603-7000	320	SY	PLASTIC FILTER FABRIC

BRIDGE NO. 1

35.02

REVISIONS	BY	DATE
TRAFFIC CONTROL NOTE	JJG	SEPT 2010
REVISION PER FFPR		
COMMENTS.		

GEORGIA
DEPARTMENT OF TRANSPORTATION
PRECONSTRUCTION DIVISION-OFFICE OF BRIDGE DESIGN

GENERAL NOTES
CR 467 (BICKLEY HIGHWAY) OVER CANE CREEK
WARE COUNTY CSBRG-0006-00(441)

NO SCALE JULY 2010

JOB NO. 7174-017 | BRIDGE SHEET 2 OF 11

DESIGNED JLA | CHECKED LSW | REVIEWED WMD/WEI
DRAWN RAR | DESIGN GROUP | APPROVED PVL

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