BRIDGE CONSISTS OF

1 - 130'-0" BULB TEE, 72 IN, PSC BEAM SPAN ---------- SPECIAL DESIGN

2 - STEEL H PILE END 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")

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

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

DRAINAGE DATA

DRAINAGE AREA ---------- 5.48 SQ MILES

FLOOD FREQUENCY	DISCHARGE	MEAN VELOCITY	AREA OF OPENING UNDER FLOODSTAGE	BACKWATER
50 YEAR	1879 CFS	6.34 FPS	296.33 SQ FT	0.26 FT
100 YEAR	2222 CFS	7.00 FPS	317.64 SQ FT	0.39 FT
500 YEAR	3141 CFS	8.54 FPS	368.01 SQ FT	0.74 FT

UTILITIES

NONE

TRAFFIC DATA

TRAFFIC ---------- ADT = 3,400 (2010)
ADT = 5,000 (2030)
24 HR TRUCKS ---------- 10%
TRUCKS ---------- 8%
DIRECTIONAL DIST ---------- 60%
DESIGN SPEED ---------- 55 MPH

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 = 8,000 PSI
PSC BEAM ALLOWABLE TENSION ---------- 537 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

GENERAL NOTES

SPECIFICATIONS - GEORGIA STANDARD SPECIFICATIONS, 2001 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 - ALL EXPOSED CONCRETE EDGES SHALL BE CHAMFERED 3/4 INCH UNLESS OTHERWISE NOTED.

DETOUR BRIDGE - PROVIDE A DETOUR BRIDGE AT THIS SITE, SEE SECTION 541 OF THE GEORGIA DOT SPECIFICATIONS. THE MINIMUM BOTTOM OF BEAM ELEVATION FOR THE DETOUR BRIDGE SHALL BE 552.26.

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) 656-5401. THE ORIGINAL BRIDGE WAS BUILT UNDER PROJECT NUMBER S-281(2).

WAITING PERIOD - NONE REQUIRED.

PLAN DRIVING OBJECTIVE - SEE SUBSTRUCTURE DETAILS.

PILE POINTS - REINFORCE ALL PILE TIPS AT BENTS 1 AND 2 IN ACCORDANCE WITH SECTIONS 520 AND 822 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.

STANDARD PLAN MODIFICATION - MODIFY THE APPROACH SLAB STANDARD TO INCREASE THE ¾" EXPANSION JOINT SHOWN BETWEEN THE APPROACH SLAB AND THE BACK FACE PAVING REST AND END POST TO 1" 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.

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 GEORGIA DOT 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.

VOID

SUMMARY OF QUANTITIES

PAY ITEM NUMBER	QTY	UNIT	PAY ITEM
500-0100	607	SY	GROOVED CONCRETE
500-1006	LUMP	LS	SUPERSTR CONCRETE, CL AA, BR NO - 1 (229)
500-2100	248	LF	CONCRETE BARRIER
500-3101	50	CY	CLASS A CONCRETE
507-9032	770	LF	PSC BEAMS, AASHTO, BULB TEE, 72 IN, BR NO - 1
511-1000	5814	LB	BAR REINF STEEL
511-3000	LUMP	LS	SUPERSTR REINF STEEL, BR NO - 1 (47828)
520-0589	16	EA	H-PILE POINTS, HP 14 X 89
520-1151	990	LF	PILING IN PLACE, STEEL H, HP 14 X 89
520-4151	1	EA	LOAD TEST, STEEL H, HP 14 X 89 (IF REQD)
540-1101	LUMP		REMOVAL OF EXISTING BR, STA NO - 34+89
541-0001	LUMP		DETOUR BRIDGE, 24 FT X 100 FT, STA - 134+89
603-2024	702	SY	STN DUMPED RIP RAP, TP 1, 24 IN
603-7000	702	SY	PLASTIC FILTER FABRIC

DWG NO. 35-02

BRIDGE NO. 1

Heath & Lineback Engineers
INCORPORATED
2390 CANTON ROAD, BUILDING 200
MARIETTA, GEORGIA 30066-5393

GEORGIA
DEPARTMENT OF TRANSPORTATION
PRECONSTRUCTION DIVISION-OFFICE OF BRIDGE DESIGN

GENERAL NOTES

SR 83 OVER LITTLE SANDY CREEK

MORGAN COUNTY BRSTO-2938-00(004)

NO SCALE OCTOBER 2007

REVISIONS	BY	DATE
PAY ITEM 541-5420 TO 541-0001	JMB	10-20-2010

BRIDGE SHEET 2 OF 9

DESIGNED	KAK	CHECKED	FRB	REVIEWED	MS
DRAWN	TBS	DESIGN GROUP	EJC	APPROVED	PVL

C:\245400\DGN FC@IIB\WOGO_GEN.8MI