STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	BRSLB-1320-00(003)	29	102

BRIDGE CONSISTS OF

5 - 45'-0" TYPE I MOD PSC BEAM SPANS ---------- SPECIAL DESIGN

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

4 - 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)

DRAINAGE DATA

DRAINAGE AREA ---------- 1450 SQ. MI.

FLOOD FREQUENCY	TOTAL DISCHARGE	DISCHARGE THRU BRIDGE	MEAN VELOCITY	AREA OF OPENING BELOW FLOODSTAGE	BACKWATER
25 YEAR	23957 CFS	2875 CFS	3.16 FPS	910 SQ FT	0.37 FT
100 YEAR	34584 CFS	5504 CFS	4.15 FPS	1325 SQ FT	0.63 FT
500 YEAR	48905 CFS	9441 CFS	5.33 FPS	1771 SQ FT	1.03 FT

TRAFFIC DATA

TRAFFIC ---------- ADT = 286 (2014)
ADT = 469 (2034)
DHV = 31 (2014)

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

TRUCKS ---------- 3.0%

24 HR TRUCKS ---------- 4.5%

DIRECTIONAL ---------- 55%

EXISTING UTILITIES

ABANDONED TELEPHONE CONDUIT (TO BE REMOVED) ---------- AT&T

PROPOSED 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 ¾" UNLESS OTHERWISE NOTED.

TRAFFIC CONTROLS - ROAD TO BE CLOSED DURING BRIDGE CONSTRUCTION. SEE ROADWAY PLANS FOR DETOUR, 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
THE ORIGINAL BRIDGE WAS BUILT UNDER PROJECT NUMBER B.A.(3)1189(4).

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 CONTRACTOR'S OPTION, USE PREDRILLING IN LIEU OF JETTING OR SPUDDING AT BENTS 2-5. THE EXTENT OF PREDRILLING SHALL BE TO ELEVATION 133.00. SEE SECTION 520 OF THE GEORGIA DOT SPECIFICATIONS.

PILE DRIVING - SHOULD PILES FAIL TO OBTAIN DRIVING RESISTANCE AFTER ACHIEVING THE PILE TIP ELEVATION SHOWN, ALLOW PILES TO FREEZE A MINIMUM OF 24 HOURS AND RESTRIKE WITH A WARM HAMMER.

BENT NUMBER	PILE TIP ELEVATION
1 AND 6	132.00
2-5	127.00

TEST PILES - DRIVE TEST PILES AT THE FOLLOWING LOCATIONS:
ONE 14 IN SQ PSC X 45 FT AT BENT 1 RIGHT
ONE 16 IN SQ PSC X 51 FT AT BENT 3 RIGHT
ONE 16 IN SQ PSC X 51 FT AT BENT 5 LEFT

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.

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.

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 = 6,200 PSI
PSC BEAM ALLOWABLE TENSION ---------- 472 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

VOID

SUMMARY OF QUANTITIES

PAY ITEM NUMBER	QUANTITY	UNIT	PAY ITEM
500-0100	600	SY	GROOVED CONCRETE
500-1006	LUMP	LS	SUPERSTR CONCRETE, CL AA, BR NO - 1 (177)
500-2100	438	LF	CONCRETE BARRIER
500-3101	46	CY	CLASS A CONCRETE
507-8900	882	LF	PSC BEAMS, AASHTO TYPE I MOD, BR NO - 1
511-1000	5480	LB	BAR REINF STEEL
511-3000	LUMP	LS	SUPERSTR REINF STEEL, BR NO - 1 (53334)
520-2214	280	LF	PILING, PSC, 14 IN SQ
520-2216	630	LF	PILING, PSC, 16 IN SQ
520-3214	1	EA	TEST PILE, PSC, 14 IN SQ
520-3216	2	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 - 19+87
603-2024	1040	SY	STN DUMPED RIP RAP, TP 1, 24 IN
603-7000	1040	SY	PLASTIC FILTER FABRIC

BRIDGE NO.1

Hatch Mott MacDonald
2550 Heritage Ct, SE, Suite 250
Atlanta GA 30339-3062
(770) 952-1022

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

GENERAL NOTES

CR 191 OVER OGEECHEE RIVER OVERFLOW

JENKINS COUNTY BRSLB-1320-00(003)

SCALE: NO SCALE U.N.O. MARCH 2014

DRAWING NO. 35-002
BRIDGE SHEET 2 OF 10

REVISIONS	BY	DATE

DESIGNED HSB | CHECKED PJC/SII | REVIEWED WMB/DLC
DRAWN HSB | DESIGN GROUP ACB | APPROVED BFR

1 INCH WHEN PRINTED FULL SIZE

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