BRIDGE CONSISTS OF

6 - 40'-0" REINFORCED CONCRETE DECK GIRDER SPANS ---------- SPECIAL DESIGN

1 - 120'-0" BULB TEE, 72 IN, PSC BEAM SPAN ---------- SPECIAL DESIGN

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

4 - STEEL H PILE INTERMEDIATE BENTS ---------- SPECIAL DESIGN

2 - 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 = 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 ---------- 127 SQ MILES

FLOOD FREQUENCY	TOTAL DISCHARGE	MEAN VELOCITY	AREA OF OPENING UNDER FLOODSTAGE	BACKWATER
50 YEAR	12,600 CFS	5.28 FPS	2,387 SQ FT	0.26 FT
100 YEAR	14,900 CFS	5.72 FPS	2,603 SQ FT	0.32 FT
500 YEAR	21,200 CFS	6.79 FPS	3,123 SQ FT	0.51 FT

TRAFFIC DATA

TRAFFIC ---------- ADT = 3,100 (2014)
ADT = 4,400 (2034)

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

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

24 HR TRUCKS ---------- 10 %

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

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.

TEMPORARY SHORING - INCLUDE THE COST OF TEMPORARY SHORING AS NECESSARY FOR BRIDGE CONSTRUCTION IN THE OVERALL BID SUBMITTED.

TRAFFIC CONTROLS - SEE ROADWAY PLANS FOR TRAFFIC CONTROLS AND TRAFFIC CONTROL PAYMENT.

GENERAL NOTES (CONTINUED)

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-147(1).

WAITING PERIOD - NONE REQUIRED.

COFFERDAMS - PROVIDE COFFERDAMS AT BENTS 4 AND 5.

PLAN DRIVING OBJECTIVE - SEE SUBSTRUCTURE DETAILS.

PILOT HOLES - DRILL A 24" DIAMETER PILOT HOLE TO A MINIMUM ELEVATION OF 620.00 AT BENT 3 FOR EACH PILE.

PILE POINTS - REINFORCE ALL PILE TIPS AT BENTS 3, 4, AND 5 IN ACCORDANCE WITH SECTIONS 520 AND 855 OF THE GEORGIA DOT SPECIFICATION.

DRIVING DATA PILES - ONE DRIVING DATA PILE SHALL BE REQUIRED AT EACH OF BENTS 2 AND 7.

PILE BENT SWAYBRACING- SWAYBRACING REQUIRED AT INTERMEDIATE BENTS 2, 3, 6 AND 7.

PILE ENCASEMENT - ENCASE PILES AT BENTS 2, 3, 6, AND 7 IN CONCRETE UP TO ELEVATION 644.50 OR 2'-0" ABOVE GROUND, WHICHEVER IS HIGHER. ENCASEMENT SHALL BE IN ACCORDANCE WITH SECTION 547 OF THE GEORGIA DOT SPECIFICATIONS.

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.

1013 DOWEL BARS - CAST 1013 DOWEL BARS IN PLACE OR PLACE DOWELS 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. AT FIXED ENDS, EFFECTIVELY WRAP 1013 DOWEL BARS TO PREVENT BOND WITH BEAM CONCRETE. AT EXPANSION ENDS, FORM 1 1/2" X 3" X 7" DEEP SLOT IN BEAM FOR 1013 DOWEL BARS.

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.

BOTTOM OF BEAM ELEVATIONS - BOTTOM OF THE BEAMS SHALL NOT BE BELOW ELEVATION 650.13.

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.

SPECIAL PROTECTIVE COATING - CLEAN AND PAINT PILES AND SWAYBRACING WITH SPECIAL PROTECTIVE COATING NO. 2P IN ACCORDANCE WITH SECTIONS 520 AND 535 OF THE GEORGIA DOT SPECIFICATIONS.

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 = 7,000 PSI
PSC BEAM ALLOWABLE TENSION ---------- 502 PSI
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
211-0300	227	CY	BRIDGE EXCAVATION, STREAM CROSSING
500-0100	1680	SY	GROOVED CONCRETE
500-1006	LUMP	LS	SUPERSTR CONCRETE, CL AA, BR NO - 2 (642)
500-2100	708	LF	CONCRETE BARRIER
500-3002	233	CY	CLASS AA CONCRETE
501-2100	3421	LB	STR STEEL, SWAYBRACING
507-9032	716	LF	PSC BEAMS, AASHTO, BULB TEE, 72 IN, BR NO - 2
511-1000	28038	LB	BAR REINF STEEL
511-3000	LUMP	LS	SUPERSTR REINF STEEL, BR NO - 2 (183620)
520-0573	28	EA	H-PILE POINTS, HP 14 X 73
520-1104	620	LF	PILING IN PLACE, STEEL H, HP 10 X 42
520-1125	1130	LF	PILING IN PLACE, STEEL H, HP 12 X 53
520-1147	680	LF	PILING IN PLACE, STEEL H, HP 14 X 73
520-4104	1	EA	LOAD TEST, STEEL H, HP 10 X 42 (IF REQD)
520-4125	1	EA	LOAD TEST, STEEL H, HP 12 X 53 (IF REQD)
520-4147	1	EA	LOAD TEST, STEEL H, HP 14 X 73 (IF REQD)
520-5000	128	LF	PILOT HOLES
525-1000	4	EA	COFFERDAM
540-1101	LUMP	LS	REMOVAL OF EXISTING BR, STA NO - 186+67
547-2012	107	LF	PILE ENCASEMENT, 12 IN PILE
603-2024	986	SY	STN DUMPED RIP RAP, TP 1, 24 IN
603-7000	986	SY	PLASTIC FILTER FABRIC

BRIDGE NO. 2

URS
URS CORPORATION
400 NORTHPARK TOWN CENTER
1000 ABERNATHY ROAD, N. E.
SUITE 900
ATLANTA, GA 30328
TEL: (678) 808-8800
FAX: (678) 808-8400

REVISIONS					
BY	DESCRIPTION	DATE	Δ	DESIGNED	GJBM
				DRAWN	CAV
				CHECKED	RSC
				GDOT LIAISON	EJC
				REVIEWED	WEI/WMD
				APPROVED	PVL
				NO SCALE	
				JULY 2011	

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

GENERAL NOTES
SR 100 OVER NEW RIVER
BRSTO-2797-00(004)
HEARD COUNTY

BRIDGE SHEET 2 OF 14

DRAWING No. 35-0012

1 INCH WHEN PRINTED FULL SIZE

X.DGN