

BRIDGE CONSISTS OF

- 5 - 60'-0" TYPE II 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 = 3'-6")
- 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 ----- 11600 SQ MILES

FLOOD FREQUENCY	TOTAL BRIDGE OPENING DISCHARGE	MEAN VELOCITY	AREA OF OPENING UNDER FLOODSTAGE	BACKWATER
50 YEAR	175400 CFS	2.41 FPS	3452 SQ FT	0.29 FT
100 YEAR	202000 CFS	2.63 FPS	3933 SQ FT	0.33 FT
500 YEAR	267600 CFS	2.92 FPS	4561 SQ FT	0.62 FT

TRAFFIC DATA

TRAFFIC ----- ADT = 6,050 (2019)
ADT = 7,300 (2039)

DESIGN SPEED ----- 65 MPH

TRUCKS ----- 10.0 %

24 HR TRUCKS ----- 13.0 %

DIRECTIONAL ----- 60 %

EXISTING UTILITIES

TELEPHONE CONDUITS ----- BELLSOUTH

UTILITIES

NO UTILITIES ON BRIDGE

GENERAL NOTES

- SPECIFICATIONS - GEORGIA STANDARD SPECIFICATIONS, 2013 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 - 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 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 SNFAP427(6) (PROJECT ID NO. H015383).
- WAITING PERIOD - NONE REQUIRED.
- PLAN DRIVING OBJECTIVE - SEE SUBSTRUCTURE DETAILS.
- PILE DRIVING - SHOULD PILES FAIL TO OBTAIN DRIVING RESISTANCE AFTER ACHIEVING THE PILE TIP ELEVATIONS SHOWN, ALLOW PILES TO FREEZE A MINIMUM OF 24 HOURS AND RESTRIKE WITH A WARM HAMMER.
- | BENT NUMBER | PILE TIP ELEVATION |
|-------------|--------------------|
| 1 | 40.0 |
| 2 & 3 | 28.0 |
| 4 & 5 | 34.0 |
| 6 | 46.0 |
- TEST PILES - DRIVE TEST PILES AT THE FOLLOWING LOCATIONS:
- ONE 16 IN SQ PSC X 61 FT AT BENT 1
 - ONE 18 IN SQ PSC X 73 FT AT BENT 2
 - ONE 18 IN SQ PSC X 67 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.
- 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" AT BENT 6. 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 OFFICE OF MATERIALS AND TESTING. 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
BARRIER ----- CLASS AA, $f'_c = 3,500$ PSI
PSC BEAMS ----- CLASS AAA, $f'_c = 6,500$ PSI
PSC BEAM ALLOWABLE TENSION ----- 484 PSI
SUBSTRUCTURE ----- CLASS A, $f'_c = 3,000$ PSI
- REINFORCEMENT STEEL: ----- GRADE 60, $f_y = 60,000$ PSI
- PRETENSIONING STRANDS: ----- $f_p = 270,000$ PSI

SUMMARY OF QUANTITIES

PAY ITEM NUMBER	QUANTITY	UNIT	PAY ITEM
500-0100	1267	SY	GROOVED CONCRETE
500-1006	LUMP	LS	SUPERSTR CONCRETE, CL AA, BR NO - 2 (356)
500-2100	588	LF	CONCRETE BARRIER
500-3101	73	CY	CLASS A CONCRETE
507-9002	1773	LF	PSC BEAMS, AASHTO TYPE II, BR NO - 2
511-1000	8228	LB	BAR REINF STEEL
511-3000	LUMP	LS	SUPERSTR REINF STEEL, BR NO - 2 (103286)
520-2216	575	LF	PILING, PSC, 16 IN SQ
520-2218	1425	LF	PILING, PSC, 18 IN SQ
520-3216	1	EA	TEST PILE, PSC, 16 IN SQ
520-3218	2	EA	TEST PILE, PSC, 18 IN SQ
520-4216	1	EA	LOAD TEST, PSC 16 IN SQ
520-4218	1	EA	LOAD TEST, PSC 18 IN SQ
540-1101	LUMP	LS	REMOVAL OF EXISTING BR, STA NO. 97+00
603-2024	2609	SY	STN DUMPED RIP RAP, TP 1, 24 IN
603-7000	2609	SY	PLASTIC FILTER FABRIC

BRIDGE NO. 2



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

GENERAL NOTES
SR 4 (SR 15, US 1)
OVER ALTAMAHA RIVER OVERFLOW # 1
TOOMBS COUNTY BR000-0001-00(216)

NO SCALE NOVEMBER 2013

DRAWING NO.
35 - 036
BRIDGE SHEET
2 OF 10

DATE	
REVISIONS	
BY	

DESIGNED	JJY/KAK	CHECKED	RLF/MS	REVIEWED	WMD/DLC
DRAWN	JJY	DESIGN GROUP	ACB	APPROVED	BFR