

BRIDGE CONSISTS OF

- 4 - 60'-0" TYPE II PSC BEAM SPANS ----- SPECIAL DESIGN
- 2 - STEEL H - PILE END BENTS ----- SPECIAL DESIGN
- 3 - STEEL H - PILE INTERMEDIATE BENTS ----- SPECIAL DESIGN
- 4 - END POST AND GUARDRAIL ATTACHMENT DETAIL ----- GA. STD. 3054 (5-89)
(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 (10-20-97)

DRAINAGE DATA

DRAINAGE AREA ----- 31.21 SQ MILES

FLOOD FREQUENCY	TOTAL DISCHARGE	MEAN VELOCITY	AREA OF OPENING UNDER FLOODSTAGE	BACKWATER
25 YEAR	2022 CFS	2.34 FPS	863.71 SQ FT	0.46 FT.
100 YEAR	2940 CFS	2.77 FPS	1063.15 SQ FT	0.61 FT.
500 YEAR	4170 CFS	3.25 FPS	1284.41 SQ FT	0.78 FT.

TRAFFIC DATA

TRAFFIC ----- ADT = 600 (2007)
ADT = 800 (2027)

DESIGN SPEED ----- 55 MPH

TRUCKS ----- 8 %

24 HR TRUCKS ----- 11 %

DIRECTIONAL ----- 60 %

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 ----- (SEE BEAM SHEETS)
PSC BEAM ALLOWABLE TENSION ----- (SEE BEAM SHEETS)
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, AND 2008 SUPPLEMENTAL SPECIFICATIONS AS MODIFICATION 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 DETOUR, TRAFFIC CONTROLS AND TRAFFIC CONTROL PAYMENT.

WAITING PERIOD - NONE REQUIRED.

PLAN DRIVING OBJECTIVE - SEE SUBSTRUCTURE DETAILS.

PILE ENCASEMENT - ENCASE PILES AT BENTS 2, 3 & 4 IN CONCRETE UP TO ELEVATION 255.00 OR 2 FEET 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.

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.

RIDING QUALITY - THE FINISHED BRIDGE DECK AND APPROACH SLABS SHALL MEET THE RIDE QUALITY REQUIREMENTS AS SPECIFIED IN SUB-SECTION 500.3.06.E OF THE GEORGIA DOT SPECIFICATIONS FOR STATE ROUTES WITH FOUR LANES OR MORE.

BOTTOM OF BEAM ELEVATIONS - BOTTOM OF THE BEAMS SHALL NOT BE BELOW ELEVATION 260.51.

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 SPECIAL PROTECTIVE COATING NO. 2P FOR PILING IN ACCORDANCE WITH SECTIONS 520 AND 535 OF THE GEORGIA DOT SPECIFICATION. PAINT SHALL BE SYSTEM VI EXCEPT THE TOP COAT SHALL BE BLACK FEDERAL STANDARD NO. 595 COLOR 27040.

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.

UTILITIES

NONE

SUMMARY OF QUANTITIES

PAY ITEM NUMBER	QUANTITY	UNIT	PAY ITEM
500-0100	747	SY	GROOVED CONCRETE
500-1006	LUMP	LS	SUPERSTR CONCRETE, CL AA, BR NO - 1 (235)
500-2100	468	LF	CONCRETE BARRIER
500-3101	53	CY	CLASS A CONCRETE
507-9002	944	LF	PSC BEAMS, AASHTO TYPE II, BR NO - 1
511-1000	6696	LB	BAR REINF STEEL
511-3000	LUMP	LS	SUPERSTR REINF STEEL, BR NO - 1 (66418)
520-1125	390	LF	PILING IN PLACE, STEEL H, HP 12 X 53
520-1147	435	LF	PILING IN PLACE, STEEL H, HP 14 X 73
520-4125	1	EA	LOAD TEST, STEEL H, HP 12 X 53 (IF REQD)
520-4147	1	EA	LOAD TEST, PSC, STEEL H, HP 14 X 73 (IF REQD)
540-1102	LUMP		REMOVAL OF EXISTING BR NO - 1
547-2014	56	LF	PILE ENCASEMENT. 14 IN PILE
603-2024	734	SY	STN DUMPED RIP RAP, TP 1, 24 IN
603-7000	734	SY	PLASTIC FILTER FABRIC

BRIDGE NO. 1

GEORGIA
DEPARTMENT OF TRANSPORTATION
PRECONSTRUCTION DIVISION-OFFICE OF BRIDGE DESIGN

GENERAL NOTES
C.R. 164 (HEROD-SASSER RD.)
OVER CHICKASAWHATCHEE CREEK
TERRELL CO. BR00-0000-00(453)

NO SCALE SEPTEMBER 2008

BRIDGE SHEET 2 OF 10	DESIGNED PBE/LA III DRAWN PBE	CHECKED LA III DESIGN GROUP LA III	REVIEWED WMD/HST APPROVED PVL
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