

BRIDGE CONSISTS OF

- 3 - 30'-0" TYP I MOD PSC BEAM SPANS ----- SPECIAL DESIGN
- 2 - STEEL H PILE END BENTS ----- SPECIAL DESIGN
- 2 - STEEL H 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")
(L = 4'-6", W = 1'-1", H = 3'-6")
- ONE PIPE ALUMINUM HANDRAILING ----- GA. STD. 3626 (10-22-85)
- BAR BENDING DETAILS ----- GA. STD. 3901 (8-69)
- CONCRETE BARRIERS - TEMPORARY ----- GA. STD. 4960 (5-10-07)
- DETAILS OF PRECAST TEMPORARY BARRIERS ----- GA. STD. 4961 (9-8-06)
- TYPICAL FILL DETAIL AT END OF BRIDGE ----- GA. STD. 9037 (9-99)

DRAINAGE DATA

DRAINAGE AREA -----	10.22	SQ MILES		
<u>FLOOD FREQUENCY</u>	<u>TOTAL DISCHARGE</u>	<u>MEAN VELOCITY</u>	<u>AREA OF OPENING UNDER FLOODSTAGE</u>	<u>BACKWATER</u>
50 YEAR	2741 CFS	9.18 FPS	299 SQ FT	0.73 FT
100 YEAR	3239 CFS	9.84 FPS	329 SQ FT	0.78 FT
500 YEAR	4567 CFS	11.31 FPS	404 SQ FT	1.43 FT

TRAFFIC DATA

TRAFFIC -----	ADT = 5200 (2010)	ADT = 7000 (2030)
DESIGN SPEED -----	35	MPH
TRUCKS -----	2	%
24 HR TRUCKS -----	3	%
DIRECTIONAL -----	55	%

UTILITIES

- 4 - 6 INCH TELEPHONE CONDUITS (STAGE I) ----- BELLSOUTH
- 10 INCH DIAMETER WATER MAIN (STAGE I) ----- CITY OF ATLANTA

EXISTING UTILITIES

- GAS MAIN ----- ATLANTA GAS LIGHT COMPANY 
- TELEPHONE CONDUITS ----- BELLSOUTH 
- WATER MAIN ----- CITY OF ATLANTA

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.

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.

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

WAITING PERIOD - NO WORK SHALL BEGIN AT BENTS 1 AND 4 UNTIL THE COMPLETED END FILLS HAVE BEEN IN PLACE FOR AN ESTIMATED PERIOD OF 60 DAYS.

EXISTING BRIDGE PLANS - ORIGINAL BRIDGE PLANS ARE NOT AVAILABLE.

PLAN DRIVING OBJECTIVE - SEE SUBSTRUCTURE DETAILS.

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.

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

DRIVING DATA PILES - ONE DRIVING DATA PILE SHALL BE REQUIRED AT BENT 2.

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.

PSC BEAMS - PRESTRESSED CONCRETE AASHTO TYPE I MODIFIED BEAMS SHALL BE PAID FOR AS "LF PSC BEAMS, AASHTO TYPE I".

PILE ENCASEMENT - ENCASE PILES AT BENTS 2 AND 3 IN CONCRETE UP TO ELEVATION 849.58 OR 2'-0" ABOVE GROUND, WHICHEVER IS HIGHER. ENCASEMENT SHALL BE IN ACCORDANCE WITH SECTION 547 OF THE GEORGIA DOT SPECIFICATIONS.

SALVAGE MATERIAL - NO MATERIAL REMOVED FROM THE EXISTING STRUCTURE SHALL BE SALVAGED FOR USE BY THE GEORGIA DEPARTMENT OF TRANSPORTATION.

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.

TEMPORARY BARRIERS, METHOD 1 - PLACE TEMPORARY BARRIERS AS SHOWN ON THE PLANS AND GEORGIA STANDARD NOS. 4960 AND 4961 TO PROVIDE FOR TWO 11'-3" TRAFFIC LANES. SUPPLY AND USE THE BARRIER IN ACCORDANCE WITH SPECIAL PROVISION 620 OF THE GEORGIA DOT SPECIFICATIONS.

SURCHARGE - PLACE A 5'-0" SURCHARGE WITH 1 LAYER OF MEDIUM STRENGTH FILTER FABRIC AT BENT 1 ENDFILL. KEEP SURCHARGE IN PLACE FOR 60 DAYS. SEE ROADWAY PLANS FOR DETAILS AND PAYMENT.

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.

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 ITEMS NECESSARY TO COMPLETE THE WORK.

 UTILITY HANGERS - FURNISH AND INSTALL CONCRETE INSERTS. USE ANVIL FIGURE 282, AAA TECHNOLOGY FIGURE 912 OR APPROVED EQUAL CONCRETE INSERTS. INCLUDE THE COST OF FURNISHING AND INSTALLING CONCRETE INSERTS IN THE OVERALL BID SUBMITTED. ALL OTHER COMPONENTS OF HANGER ASSEMBLIES SHALL BE FURNISHED AND INSTALLED BY UTILITY OWNER.

GENERAL NOTES CONT.

 WATER/SEWER MAIN HANGERS - PIPE CRADLE ASSEMBLIES AND KEEPER STRAPS SHALL BE FURNISHED AND INSTALLED BY THE UTILITY OWNER. FURNISH AND INSTALL ALL OTHER COMPONENTS OF HANGER ASSEMBLIES AND INCLUDE THE COST IN THE OVERALL BID SUBMITTED.

SUMMARY OF QUANTITIES

PAY ITEM NUMBER	QUANTITY	UNIT	PAY ITEM
500-0100	340	SY	GROOVED CONCRETE
500-1006	LUMP	LS	SUPERSTR CONCRETE, CL AA, BR NO - 1 (183)
500-3101	65	CY	CLASS A CONCRETE
507-9001	603	LF	PSC BEAMS, AASHTO TYPE I, BR NO - 1
511-1000	6948	LB	BAR REINF STEEL
	511-3000	LUMP	LS SUPERSTR REINF STEEL, BR NO - 1 (38 497)
516-1100	167	LF	ALUM HANDRAIL STD 3626
520-1125	1825	LF	PILING IN PLACE, STEEL H, HP 12 X 53
520-4125	1	EA	LOAD TEST, STEEL H, HP 12 X 53 (IF REQD)
540-1101	LUMP	LS	REMOVAL OF EXISTING BR, STA NO - 26+00
547-2012	40	LF	PILE ENCASEMENT, 12 IN PILE
603-2024	650	SY	STN DUMPED RIP RAP, TP 1, 24 IN
603-7000	650	SY	PLASTIC FILTER FABRIC
620-0100	170	LF	TEMPORARY BARRIER, METHOD NO. 1

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, $f'_c =$ SEE BEAM SHEETS
ALLOWABLE PSC BEAM 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

BRIDGE NO. 1	
GEORGIA DEPARTMENT OF TRANSPORTATION PRECONSTRUCTION DIVISION-OFFICE OF BRIDGE DESIGN	
GENERAL NOTES CR 581 (BETHSAIDA ROAD) OVER MORNING CREEK TRIBUTARY FULTON COUNTY CSBRG-0006(469)	
NO SCALE	MARCH 2010
DESIGNED ACB	CHECKED ACB
DRAWN RCA	DESIGN GROUP ACB
REVIEWED WEI/WMD	APPROVED PVL

BRIDGE SHEET
2 OF 14

DATE	12/13/10
BY	ACB
REVISIONS	
REV'D NOTES	