

GENERAL NOTES

SPECIFICATIONS - GEORGIA STANDARD SPECIFICATIONS, 1993 EDITION, AND 1997 SUPPLEMENTAL SPECIFICATIONS AS MODIFIED BY CONTRACT DOCUMENTS.

REINFORCING STEEL - ALL REINFORCING STEEL SHALL BE PLACED AND TIED IN ACCORDANCE WITH THE GEORGIA DOT SPECIFICATIONS. WELDING OF REINFORCING STEEL WILL NOT BE PERMITTED.

CHAMFER - ALL EXPOSED CONCRETE EDGES SHALL BE CHAMFERED 3/4 INCH UNLESS OTHERWISE NOTED.

PROTECTIVE PLATFORMS - PROTECTIVE PLATFORMS WILL BE REQUIRED AT THIS SITE, SEE SECTION 510 OF THE GEORGIA DOT SPECIFICATIONS. CONTRACTOR SHALL MAINTAIN A MINIMUM VERTICAL CLEARANCE OF 14'-10" ABOVE HOUSTON ROAD.

TEMPORARY BARRIERS, METHOD 3 - TEMPORARY BARRIERS SHALL BE PLACED AS SHOWN ON THE PLANS AND GEORGIA STANDARD NOS. 4960 AND 4961 TO PROVIDE FOR TWO 12'-0" TRAFFIC LANES. THE BARRIER SHALL BE SUPPLIED AND USED IN ACCORDANCE WITH SECTION 622 - PRECAST CONCRETE BARRIER OF THE GEORGIA DOT SPECIFICATIONS.

PIN CONNECTIONS FOR TEMPORARY BARRIER - ALL SEGMENTS OF THE TEMPORARY BARRIER SHALL BE PINNED TOGETHER WITH HOOKED REINFORCING BARS AND/OR CONNECTOR PIN ASSEMBLIES AS PER GEORGIA STANDARD 4961. IN ADDITION, TEMPORARY BARRIER PLACED ACROSS THE BRIDGE DECK SHALL BE SECURED WITH COTTER PINS AND WASHERS OR BOTTOM NUTS AND WASHERS AS DETAILED ON GEORGIA STANDARD 4961.

TRAFFIC CONTROLS - SEE PROJECT NOTE SHEET FOR TRAFFIC CONTROLS AND TRAFFIC CONTROL PAYMENT.

EXISTING BRIDGE PLANS - PLANS FOR EXISTING BRIDGE MAY BE PURCHASED BY CONTACTING THE PLANS REPRODUCTION OFFICE AT (404) 656-5401. THE ORIGINAL BRIDGE WAS BUILT UNDER PROJECT NUMBER AD-1(1) AND WAS WIDENED UNDER PROJECT NUMBER F-002-3(4).

DIMENSIONS AND ELEVATIONS - ALL DIMENSIONS AND ELEVATIONS SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO ORDERING MATERIALS OR BUILDING FORMS. HATCHED LINES ON PLAN AND ELEVATION SHEET AND DECK LAYOUT SHEET INDICATE THE REPAIR AREA. ON DETAIL SHEETS, LIGHT LINES INDICATE THE EXISTING STRUCTURE AND HEAVY LINES INDICATE THE NEW STRUCTURE.

EPOXY RESIN ADHESIVE - EPOXY RESIN ADHESIVE TYPE II SHALL BE APPLIED TO ALL HARDENED CONCRETE SURFACES JUST PRIOR TO POURING THE CONCRETE FOR THE NEXT STAGE OF CONSTRUCTION, SEE SECTION 886 OF THE GEORGIA DOT SPECIFICATIONS. COST OF EPOXY ADHESIVE AND ITS APPLICATION SHALL BE INCLUDED IN THE OVERALL BID SUBMITTED.

EXISTING REINFORCEMENT - EXISTING REINFORCEMENT TO BE UTILIZED IN NEW CONSTRUCTION SHALL BE BENT IN A MANNER TO PROVIDE THE MAXIMUM LAP POSSIBLE OR AS SHOWN ON THE PLANS. EXISTING REINFORCEMENT SHALL BE THOROUGHLY CLEANED OF CONCRETE SCALE AND RUST BEFORE BONDING INTO NEW CONSTRUCTION.

△ CHARPY V-NOTCH TEST - ALL W-BEAMS ARE MAIN LOAD CARRYING MEMBERS SUBJECT TO TENSILE STRESS AND SHALL MEET THE CHARPY V-NOTCH TEST REQUIREMENTS AS SPECIFIED BY SECTION 851 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 GEORGIA DOT OFFICE OF MATERIALS AND RESEARCH. ONLY E70XX (EXCLUDING E7014 AND E7024) LOW HYDROGEN ELECTRODES SHALL BE USED FOR MANUAL SHIELDED METAL ARC WELDING.

PAINT - TOUCH UP PAINT AT EXISTING BEAMS SHALL BE SYSTEM VI. COST OF PAINT SHALL BE INCLUDED IN OVERALL BID SUBMITTED.

△ SALVAGE MATERIAL - A TWO FOOT SECTION OF THE DAMAGED BEAM CENTERED ON THE CRACK SHALL BE SALVAGED AND TRANSPORTED BY THE CONTRACTOR TO THE FOREST PARK MATERIALS LAB FOR FUTHER EXAMINATION BY THE GEORGIA DOT. NO OTHER MATERIALS REMOVED FROM THE EXISTING STRUCTURE SHALL BE SALVAGED FOR USE BY THE GEORGIA DEPARTMENT OF TRANSPORTATION. THE COST OF SALVAGING PORTIONS OF DAMAGED BEAM AND TRANSPORTATION TO FOREST PARK MATERIALS LAB SHALL BE INCLUDED IN OVERALL BID SUBMITTED.

INCIDENTAL ITEMS - COST INCIDENTAL TO THE WORK THAT IS NOT SPECIFICALLY COVERED BY THE GEORGIA STANDARD SPECIFICATIONS, SUPPLEMENTAL SPECIFICATIONS AND/OR SPECIAL PROVISIONS SHALL BE INCLUDED IN THE OVERALL BID SUBMITTED. THIS INCLUDES THE COST OF CLEANING AND BENDING OF EXISTING REINFORCEMENT, JOINT FILLERS, AND OTHER INCIDENTAL ITEMS NECESSARY TO COMPLETE THE WORK.

BRIDGE CONSISTS OF

- 1 - 55'-6 1/4" W BEAM COMPOSITE SIMPLE SPAN REPAIR ----- SPECIAL DESIGN
- BAR BENDING DETAILS ----- GA. STD. 3901 (8-69)
- CONCRETE BARRIERS - TEMPORARY ----- GA. STD. 4960 (5-99)
- DETAILS OF PRECAST TEMPORARY BARRIERS ----- GA. STD. 4961 (5-10-96)

WORK CONSISTS OF

1. REMOVE EDGEBEAMS, DECK, BARRIER AND ASPHALT OVERLAY TO CUT LINE LOCATED ONE FOOT FROM CENTERLINE OF BEAM 8 ON SPAN 2.
2. REMOVE STEEL DIAPHRAGMS BETWEEN BEAM 8 AND 9, DAMAGED BEAM 9 AND BEARING ASSEMBLIES.
- △ 3. REMOVE EXISTING CONCRETE DIAPHRAGM BETWEEN BEAMS 7 AND 8 OF SPAN 2. LEAVE A 3 INCH PROJECTION OF THE DIAPHRAGM REBAR EXTENDING BEYOND THE FACE OF THE WEB OF BEAM 7. THREAD THE PROJECTED REBAR AND INSTALL A 1/4" X 3" X 3" PLATE WASHER AND HEAVY HEX NUT TO A SNUG TIGHT FIT. TACK WELD NUT TO WASHER AFTER INSTALLATION. COST OF FURNISHING AND INSTALLING MATERIAL SHALL BE INCLUDED IN THE PRICE BID FOR STRUCTURAL STEEL.
4. EXTEND ANCHOR BOLTS.
5. REPLACE BEARING ASSEMBLIES, BEAM 9 AND THE STEEL DIAPHRAGMS BETWEEN BEAMS 8 AND 9.
6. RECONSTRUCT EDGEBEAMS, DECK AND BARRIER.
7. TOUCH UP PAINT ALONG EXISTING BEAMS CAUSED BY REMOVAL OF DIAPHRAGMS OR DAMAGE CAUSED BY COLLISION TO BRIDGE.
8. REPLACE ASPHALT OVERLAY (SEE PROJECT NOTE SHEET FOR DETAILS AND PAYMENT).

UTILITIES

NONE

DESIGN DATA

SPECIFICATIONS ----- AASHTO 1996 AND 1997, 1998 AND 1999 INTERIMS (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

STRUCTURAL STEEL BEAMS ----- SERVICE LOAD DESIGN

REINFORCEMENT STEEL ----- GRADE 60, f_y = 60,000 PSI

SUMMARY OF QUANTITIES

PAY ITEM NUMBER	QUANTITY	UNIT	PAY ITEM
500-1006	LUMP	LS	SUPERSTR CONCRETE, CL AA, BR NO - 1 (11)
500-2100	56	LF	CONCRETE BARRIER
501-3000	LUMP	LS	STR STEEL, BR NO - 1 (7957)
511-3000	LUMP	LS	SUPERSTR REINF STEEL, BR NO - 1 (3910)
540-1202	LUMP		REMOVAL OF PARTS OF EXISTING BRIDGE, BR NO - 1
622-1033	100	LF	PRECAST CONCRETE MEDIAN BARRIER, METHOD 3

LOCATION	NO. OF LOC.	MARK	LENGTH		NO. BARS REG'D.	T _y	P	E	AG	B		C		D		E		F		H		J		K		N	θ								
			FT.	IN.						FT.	IN.	FT.	IN.	FT.	IN.	FT.	IN.	FT.	IN.	FT.	IN.	FT.	IN.	FT.	IN.										
SPAN 2	1									SUPERSTRUCTURE																									
		400	VARY	18	1																														
		401	27- 6	12	1																														
		402	27- 6	12	31	4	4	0- 9		1- 2		1- 2																							
		500A		104	3			VARY		0-10																									
		500B		104	3			VARY		0-10																									
		501	VARY	104	1																														
		502	6- 2	58	23			0- 8		2- 9		2- 9																96							
		503	4-11	58	23			0- 5		2- 3		2- 3																84							
		504	5- 0	5	1																														

BRIDGE NO. 1

GEORGIA
DEPARTMENT OF TRANSPORTATION
PRECONSTRUCTION DIVISION-OFFICE OF BRIDGE DESIGN

BEAM REPLACEMENT - GENERAL NOTES
SR 247 OVER HOUSTON ROAD
BIBB COUNTY STP-M001-00(951)

NO SCALE APRIL 2002

DESIGNED SWW	CHECKED DLC	REVIEWED JPT/MCD
DRAWN KHM	DESIGN GROUP SWW	APPROVED PVL

BRIDGE SHEET
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