

WESTBOUND BRIDGE CONSISTS OF

- 1 - 184'-7 7/16 " FLORIDA I-BEAM, 84 IN, PSC BEAM SPAN ----- SPECIAL DESIGN
- 2 - STEEL PILE END BENTS ----- SPECIAL DESIGN
- BAR BENDING DETAILS ----- GA STD 3901 (8-69)
- TYPICAL FILL DETAIL AT END OF BRIDGE ----- GA STD 9037 (9-99)

EASTBOUND BRIDGE CONSISTS OF

- 1 - 113'-11 3/4 " BULB TEE, 72 IN, PSC BEAM SPAN ----- SPECIAL DESIGN
- 2 - STEEL PILE END BENTS ----- SPECIAL DESIGN
- BAR BENDING DETAILS ----- GA STD 3901 (8-69)

TRAFFIC DATA

TRAFFIC -----	ADT = 7,200 (2009)
	ADT = 19,900 (2029)
DESIGN SPEED -----	65 MPH
TRUCKS -----	8%
24 HR TRUCKS -----	8%
DIRECTIONAL -----	50%

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.

TEMPORARY BARRIERS, METHOD 1 - PLACE TEMPORARY BARRIERS AS SHOWN ON THE PLANS AND GEORGIA STANDARD NOS. 4960 AND 4961 TO PROVIDE FOR TWO TRAFFIC LANES. SUPPLY AND USE THE BARRIER IN ACCORDANCE WITH SECTION 620.

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.GOV/DOINGBUSINESS/RESEARCH/PAGES/ROADDESIGNSEARCH.ASPX.](http://www.dot.gov/doingbusiness/research/pages/roaddesignsearch.aspx)
 THE ORIGINAL BRIDGE WAS BUILT UNDER PROJECT NUMBER F.108-1(9).

GENERAL NOTES (CONTINUED)

EPOXY RESIN ADHESIVE - APPLY EPOXY RESIN ADHESIVE TYPE II 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. INCLUDE THE COST OF EPOXY ADHESIVE AND ITS APPLICATION IN THE OVERALL BID SUBMITTED.

WAITING PERIOD - NONE REQUIRED.

PLAN DRIVING OBJECTIVE - SEE SUBSTRUCTURE DETAILS.

STEEL H-PILES - USE STEEL FOR H-PILES THAT MEETS THE REQUIREMENTS OF ASTM A709 GR 50.

PILOT HOLES - FOR EACH PILE AT WESTBOUND BRIDGE BENT 1, DRILL A 24" DIAMETER PILOT HOLE TO A MINIMUM ELEVATION OF 996 (RT), AND 985 (LT).

PILE POINTS - REINFORCE ALL PILE TIPS AT END BENT 2 LEFT OF WESTBOUND BRIDGE IN ACCORDANCE WITH SECTIONS 520 AND 855 OF THE GEORGIA DOT SPECIFICATIONS.

DRIVING DATA PILES - ONE DRIVING DATA PILE SHALL BE REQUIRED AT EACH OF BENTS 1 AND 2 FOR WESTBOUND AND EASTBOUND.

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.

ABUTMENT SOIL REINFORCING DEVICE INSERTS - INCLUDE THE COST OF FURNISHING AND INSTALLING INSERTS FOR SOIL REINFORCING DEVICES AT END BENTS 1 AND 2 IN THE OVERALL BID SUBMITTED.

FILL SETTLEMENT - PROTECT PILES DRIVEN AT BENTS 1 AND 2 FROM NEGATIVE SKIN FRICTION WHEN USED IN CONJUNCTION WITH MECHANICALLY STABILIZED EARTH WALLS, SEE SECTION 551 OF THE GEORGIA DOT SPECIFICATIONS. DRIVE PILES AT END BENTS BEFORE WALL LEVELING PADS ARE CONSTRUCTED.

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 TO 1 1/2" AT BENT 2 WESTBOUND. SEE ROADWAY PLANS FOR APPROACH SLAB PAYMENT.

POUR STRIP - CONCRETE FOR THE POUR STRIP SHALL BE CLASS AA-1 CONCRETE AND SHALL BE PAID FOR IN "LUMP SUPERSTR CONCRETE, CL AA".

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.

PSC BEAMS - PRESTRESSED CONCRETE FLORIDA I-BEAM SHALL BE PAID FOR AS "LF PSC BEAMS, SPCL DESIGN, "FLORIDA I-BEAM 84", BR NO - 6.

HIGH PERFORMANCE CONCRETE (HPC) - PRESTRESSED CONCRETE BEAMS "FLORIDA I-BEAM 84" FOR WESTBOUND BRIDGE UTILIZE HIGH PERFORMANCE CONCRETE. SPECIAL REQUIREMENTS ARE REQUIRED AS DETAILED IN SPECIAL PROVISIONS SECTIONS 500 AND 865. HPC PSC BEAMS WILL BE PAID FOR AS PSC BEAMS, SPCL DESIGN, "FLORIDA I-BEAM 84".

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.

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 WATERPROOFING, JOINT FILLERS AND OTHER INCIDENTAL ITEMS NECESSARY TO COMPLETE THE WORK.

CONCRETE PLACEMENT RATE - THE MINIMUM PLACEMENT RATE FOR THE CONCRETE DECK POUR SHALL BE 45 CUBIC YARDS PER HOUR.

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
 PSC BEAM ALLOWABLE TENSION ----- SEE BEAM SHEETS
 SUBSTRUCTURE ----- CLASS AA, $f'_c = 3,500$ PSI

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

PRETENSIONING STRANDS: ----- $f'_s = 270,000$ PSI

SPECIAL H-PILES: ----- $f_y = 50,000$ PSI

SUMMARY OF QUANTITIES

PAY ITEM NUMBER	QUANTITIES		UNIT	PAY ITEM
	EB RIGHT	WB LEFT		
500-0100	1143	1665	SY	GROOVED CONCRETE
500-1006	LUMP	-	LS	SUPERSTR CONCRETE, CL AA, BR NO - 6 EB (418)
500-1006	-	LUMP	LS	SUPERSTR CONCRETE, CL AA, BR NO - 6 WB (588)
500-2100	230	367	LF	CONCRETE BARRIER
500-3002	81	70	CY	CLASS AA CONCRETE
507-9032	1242	-	LF	PSC BEAMS, AASHTO, BULB TEE, 72 IN, BR NO - 6
507-9240	-	1990	LF	PSC BEAMS, SPCL DESIGN, "FLORIDA I-BEAM 84", BR NO - 6
511-1000	8626 9218	7559 7902	LB	BAR REINF STEEL
511-3000	LUMP	-	LS	SUPERSTR REINF STEEL, BR NO - 6 EB (86162)
511-3000	-	LUMP	LS	SUPERSTR REINF STEEL, BR NO - 6 WB (117555)
520-0595	-	7	EA	H-PILE POINTS, HP 14 X 102
520-1147	1000	-	LF	PILING IN PLACE, STEEL H, HP 14 X 73
520-1173	-	920	LF	PILING IN PLACE, STEEL H, HP 14 X 102
520-4147	1	-	EA	LOAD TEST, STEEL H, HP 14 X 73 (IF REQD)
520-4173	-	1	EA	LOAD TEST, STEEL H, HP 14 X 102 (IF REQD)
520-5000	-	355	LF	PILOT HOLES
620-0100	120	190	LF	TEMPORARY BARRIER, METHOD NO. 1

BRIDGE NO. 6



GEORGIA DEPARTMENT OF TRANSPORTATION ENGINEERING DIVISION-OFFICE OF BRIDGES AND STRUCTURES	
GENERAL NOTES - EASTBOUND & WESTBOUND BRIDGE REPLACEMENT SR 316 OVER COLONIAL PIPELINE GWINNETT COUNTY MSL00-0004-00(086)	
SCALE: NONE	DECEMBER 2012
DESIGNED: FAQ	CHECKED: DRB
DRAWN: CAB	DESIGN GROUP: X
REVIEWED: WMD/DLC	APPROVED: BFR

DRAWING NO. 35-060
BRIDGE SHEET 3 OF 23

DATE 08-15-14
REVISIONS BAR REINF. QTY

9/8/2014 L:\506192 (SR316 HOVA)\Phase 1\ColonialPipeline\FINAL\GN.dgn

USE ON CONSTRUCTION