

RELEASED FOR CONSTRUCTION 10-05-2010

BRIDGE CONSISTS OF

- 12 - 130'-0" BULB TEE, 78 IN, PSC BEAM SPANS SPECIAL DESIGN
1 - 3 SPAN CONTINUOUS 175'-250'-175' BULB TEE, 78 (144) IN, PSC HAUNCH BEAM UNIT SPECIAL DESIGN
2 - PSC PILE END BENTS SPECIAL DESIGN
8 - PSC PILE INTERMEDIATE BENTS SPECIAL DESIGN
6 - CONCRETE INTERMEDIATE BENTS SPECIAL DESIGN
2 - END POST AND GUARDRAIL ATTACHMENT DETAIL GA. STD. 3054 (9-30-02)
18" & 24" SQUARE PRESTRESSED CONCRETE PILES GA. STD. 3215 (2-84)
36" SQUARE PRESTRESSED CONCRETE PILE SPECIAL DESIGN
ONE PIPE GALVANIZED STEEL HANDRAILING GA. STD. 9031R (10-88)
BAR BENDING DETAILS GA. STD. 3901 (8-69)
TYPICAL FILL DETAIL AT END OF BRIDGE GA. STD. 9037 (9-99)

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 (APPROACH SPANS) CLASS AA, f'c = 3,500 PSI
SUPERSTRUCTURE (CONTINUOUS UNIT) CLASS AA1, f'c = 4,500 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, fy = 60,000 PSI
PRETENSIONING STRANDS: fs = 270,000 PSI

DRAINAGE DATA

Table with 4 columns: FLOOD FREQUENCY, DISCHARGE, VELOCITY, AREA OF OPENING UNDER FLOODSTAGE. Rows for 25 YEAR, 100 YEAR, 500 YEAR.

TRAFFIC DATA

TRAFFIC ADT = 18,200 (2010)
ADT = 30,900 (2030)
DESIGN SPEED 55 MPH
TRUCKS 4 %
24 HR TRUCKS 5 %
DIRECTIONAL 55 %

UTILITIES

NONE

GENERAL NOTES

SPECIFICATIONS - GEORGIA STANDARD SPECIFICATIONS, 2001 EDITION, AND 2008 SUPPLEMENTAL SPECIFICATIONS AS MODIFIED BY CONTRACT DOCUMENTS.
SHOP DRAWINGS - SUBMIT SHOP DRAWINGS TO ENGINEER OF RECORD (EOR) FOR INITIAL REVIEW AND APPROVAL.

GENERAL NOTES (CONTINUED)

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.
PROTECTIVE PLATFORMS - PROVIDE PROTECTIVE PLATFORMS AT THIS SITE, SEE SECTION 510 OF THE GEORGIA DOT SPECIFICATIONS.
EXISTING BRIDGE PLANS - ORIGINAL BRIDGE PLANS MAY BE PURCHASED BY CONTACTING THE PLANS REPRODUCTION OFFICE AT (404) 347-0600.
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.
WAITING PERIOD - DO NOT BEGIN WORK AT BENTS 1 AND 16 UNTIL THE END FILLS HAVE BEEN IN PLACE FOR AN ESTIMATED PERIOD OF 12 MONTHS.
PLAN DRIVING OBJECTIVE - SEE SUBSTRUCTURE DETAILS.
PILING - PRE-DRILLING OF PSC PILING MAY BE NECESSARY AT THIS SITE TO ACHIEVE THE INDICATED PLAN DRIVING OBJECTIVE.
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.
STATNAMIC PILE LOAD TEST - PERFORM A STATNAMIC PILE LOAD TEST AT BENTS 10 AND 12.
DRIVING DATA PILES - ONE DRIVING DATA PILE SHALL BE REQUIRED AT EACH OF BENTS 4, 7, 9, AND 14.
HIGH PERFORMANCE CONCRETE (HPC) - PRESTRESSED CONCRETE PILES FOR THIS BRIDGE UTILIZE HIGH PERFORMANCE CONCRETE.
SMOOTH DOWEL BARS - PLACE SMOOTH DOWEL BARS IN FORMED 3" DIAMETER X 12" DEEP HOLES AND GROUT IN PLACE SIMILAR TO ANCHOR BOLTS.
ANCHOR RODS - PLACE ANCHOR RODS IN FORMED 3" DIAMETER X 12" DEEP HOLES AND GROUT IN PLACE SIMILAR TO ANCHOR BOLTS.
FILL SETTLEMENT - PROTECT PILES DRIVEN AT BENTS 1 AND 16 FROM NEGATIVE SKIN FRICTION WHEN USED IN CONJUNCTION WITH MECHANICALLY STABILIZED EARTH WALLS.
HIGH PERFORMANCE CONCRETE (HPC) - PRESTRESSED CONCRETE BEAMS FOR SPANS 7-9 OF THIS BRIDGE UTILIZE HIGH PERFORMANCE CONCRETE.
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 RESEARCH.
SPECIAL PROTECTIVE COATING - CLEAN AND PAINT PILES IN ACCORDANCE WITH SECTIONS 520 AND 535 OF THE GEORGIA DOT SPECIFICATIONS.

GENERAL NOTES (CONTINUED)

SALVAGE OF EXISTING BRIDGE MATERIALS - THE FOLLOWING LIST OF SALVAGEABLE MATERIAL FROM THE PROJECT SHALL BE THE PROPERTY OF THE CHATHAM COUNTY DEPARTMENT OF PUBLIC WORKS AND PARK SERVICES. THESE ITEMS SHALL BE DELIVERED TO A LOCATION SPECIFIED BY CHATHAM COUNTY DEPARTMENT OF PUBLIC WORKS AND PARK SERVICES. PLEASE CONTACT ROBERT W. DREWRY AT (912) 652-6840 FOR THE LOCATION. THESE ITEMS INCLUDE:
1. SPAN MOTORS (2)
2. BRAKE MOTORS AND TRUSTER (4)
3. GENERATOR (50 KW)
4. TRAFFIC GATE GEAR BOXES (4)
5. BULL GEARS AND BEARING CAPS. THESE ITEMS SHALL BE GREASED AND WRAPPED TO PREVENT RUSTING.
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.

SUMMARY OF QUANTITIES

Table with 4 columns: PAY ITEM NUMBER, QUANTITY, UNIT, PAY ITEM. Lists items like BRIDGE EXCAVATION, GROOVED CONCRETE, SUPERSTR CONCRETE, CONCRETE BARRIER, PSC BEAMS, BAR REINF STEEL, GALV STEEL PIPE HANDRAIL, PILING, TEST PILE, NAVIGATION LIGHTING, DECK DRAIN SYSTEM, STN DUMPED RIP RAP, PLASTIC FILTER FABRIC.

Table with 4 columns: STATE, PROJECT NUMBER, SHEET NO., TOTAL SHEETS. Values: GA, CSSTP-0008-00(65), 217, 346.

THE LPA GROUP logo and THE LPA GROUP INCORPORATED TRANSPORTATION CONSULTANTS 3585 ENGINEERING DRIVE NORCROSS, GEORGIA 30092 (770) 263-9118
GEORGIA DEPARTMENT OF TRANSPORTATION PRECONSTRUCTION DIVISION-OFFICE OF BRIDGE DESIGN
GENERAL NOTES SR 204 SPUR (DIAMOND CAUSEWAY) OVER SKIDAWAY NARROWS CHATHAM COUNTY CSSTP-0008-00(65)
SCALE: AS SHOWN OCTOBER 2010
DESIGNED ANZ CHECKED AWB REVIEWED WMD/WEI
DRAWN BSB DESIGN GROUP AWB APPROVED PVL

Table with 2 columns: DRAWING NO., BRIDGE SHEET. Values: 35-04, 4 OF 48.