

BRIDGE CONSISTS OF

- 1 - 69' -1 $\frac{1}{8}$ " TYPE III PSC BEAM SPAN ----- SPECIAL DESIGN WITH BULB TEE, 63 IN, PSC FASCIA BEAM
- 1 - 91' -1 $\frac{1}{8}$ " TYPE III PSC BEAM SPAN ----- SPECIAL DESIGN WITH BULB TEE, 63 IN, PSC FASCIA BEAM
- 1 - 90' -6 $\frac{3}{8}$ " TYPE III PSC BEAM SPAN ----- SPECIAL DESIGN WITH BULB TEE, 63 IN, PSC FASCIA BEAM
- 1 - 75' -1 $\frac{1}{8}$ " TYPE III PSC BEAM SPAN ----- SPECIAL DESIGN WITH BULB TEE, 63 IN, PSC FASCIA BEAM
- 1 - 92' -11 $\frac{1}{8}$ " BULB TEE, 63 IN, PSC BEAM SPAN ----- SPECIAL DESIGN
- 1 - 118' -6 $\frac{5}{8}$ " BULB TEE, 63 IN, PSC BEAM SPAN ----- SPECIAL DESIGN
- 1 - STEEL H PILE END BENT ----- SPECIAL DESIGN
- 5 - CONCRETE INTERMEDIATE BENTS ----- SPECIAL DESIGN
- BAR BENDING DETAILS ----- GA. STD. 3901 (8-69)
- CONCRETE BARRIERS - TEMPORARY ----- GA. STD. 4960 (5-10-07)
- DETAILS OF PRECAST TEMPORARY BARRIERS ----- GA. STD. (9-8-06)

TRAFFIC DATA

TRAFFIC ----- ADT = 16,100 (2015)  
 ADT = 19,700 (2035)

DESIGN SPEED ----- 45 MPH

TRUCKS ----- 5.5 %

24 HR TRUCKS ----- 6.3 %

DIRECTIONAL ----- 100 %

DRAINAGE DATA

DRAINAGE AREA ----- 38.60 SQ. MILES

FLOOD FREQUENCY	TOTAL DISCHARGE	MEAN VELOCITY	AREA OF OPENING BELOW FLOODSTAGE	BACKWATER
50-YEAR	7868 CFS	0.89 FPS	8819 SQ FT	0.04 FT
100-YEAR	8983 CFS	0.89 FPS	10083 SQ FT	0.04 FT
500-YEAR	12429 CFS	1.13 FPS	10966 SQ FT	0.07 FT

UTILITIES

NONE

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: -----  $f_p = 270,000$  PSI

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.

PROTECTIVE PLATFORMS - PROVIDE PROTECTIVE PLATFORMS AT THIS SITE, SEE SECTION 510 OF THE GEORGIA DOT SPECIFICATIONS. MAINTAIN A MINIMUM VERTICAL CLEARANCE OF 16'-0" ABOVE LENOX ROAD.

TEMPORARY BARRIERS, METHOD 1 - PLACE TEMPORARY BARRIERS AS SHOWN ON THE ROADWAY PLANS AND GEORGIA STANDARD NOS. 4960 AND 4961. SUPPLY AND USE THE BARRIER IN ACCORDANCE WITH SECTION 620 OF THE GEORGIA DOT SPECIFICATIONS.

TEMPORARY BARRIERS, METHOD 2 - WHERE THERE IS LESS THAN 6 FT FROM THE CENTERLINE OF THE BARRIER TO THE EDGE OF DECK, PLACE TEMPORARY BARRIERS AS SHOWN ON THE ROADWAY PLANS AND GEORGIA STANDARD NO. 4960. SUPPLY AND USE THE BARRIER IN ACCORDANCE WITH SECTION 620 OF THE GEORGIA DOT SPECIFICATIONS.

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

EXISTING BRIDGE PLANS - ORIGINAL BRIDGE PLANS MAY BE PURCHASED BY CONTACTING THE PLANS REPRODUCTION OFFICE AT (404) 347-0600. THE ORIGINAL BRIDGE WAS BUILT UNDER PROJECT NUMBER PE1-85-2(27).

DIMENSIONS AND ELEVATIONS - VERIFY ALL DIMENSIONS AND ELEVATIONS IN THE FIELD PRIOR TO ORDERING MATERIALS OR BUILDING FORMS. LIGHT LINES INDICATE THE EXISTING STRUCTURE AND HEAVY LINES INDICATE THE NEW STRUCTURE.

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.

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

FOOTING ELEVATIONS - DO NOT LOWER FOOTING ELEVATIONS, AS SHOWN ON THE PLANS, MORE THAN 3'-0" WITHOUT THE APPROVAL OF THE STATE BRIDGE ENGINEER. THIS SAME REQUIREMENT APPLIES TO THE SEAL CONCRETE.

PLAN DRIVING OBJECTIVE - SEE SUBSTRUCTURE DETAILS.

PILOT HOLES - DRILL PILOT HOLES TO A MINIMUM ELEVATION OF 803 AT BENT 26 AND 6 FT BELOW GROUND AT BENT 27 FOR EACH PILE AS SHOWN ON THE PLANS.

PILE POINTS - REINFORCE ALL PILE TIPS AT BENT 22 IN ACCORDANCE WITH SECTIONS 520 AND 855 OF THE GEORGIA DOT SPECIFICATION.

DRIVING DATA PILES - ONE DRIVING DATA PILE SHALL BE REQUIRED AT BENT 22.

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.

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.

GENERAL NOTES (CONT'D)

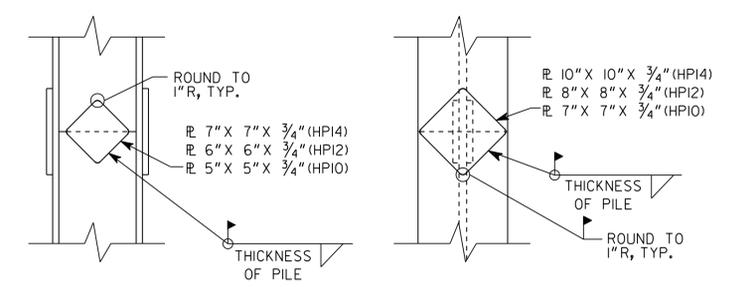
EXISTING BRIDGE JOINTS - CLEAN EXISTING BRIDGE EXPANSION JOINTS OF ALL DIRT, REFUSE, AND EXISTING SEALANT AND SEAL JOINTS USING LOW DENSITY POLYETHYLENE SEAL AS PER SECTION 449.2.D OF THE GEORGIA DOT SPECIFICATIONS. INCLUDE THE COST OF MATERIALS AND INSTALLATION IN THE OVERALL BID SUBMITTED.

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 CLEANING AND BENDING OF EXISTING REINFORCEMENT, WATERPROOFING, JOINT FILLERS, AND OTHER INCIDENTAL ITEMS NECESSARY TO COMPLETE THE WORK.

SUMMARY OF QUANTITIES

PAY ITEM NUMBER	QUANTITY	UNIT	PAY ITEM
211-0200	136	CY	BRIDGE EXCAVATION, GRADE SEPARATION
449-1350	191	LF	PREFORMED SILICONE JOINT SEAL, BR NO - 5
500-0100	816	SY	GROOVED CONCRETE
500-1006	LUMP	LS	SUPERSTR CONCRETE, CL AA, BR NO - 5 (278)
500-2100	593	LF	CONCRETE BARRIER
500-3002	192	CY	CLASS AA CONCRETE
507-9003	730	LF	PSC BEAMS, AASHTO TYPE III, BR NO - 5
507-9031	531	LF	PSC BEAMS, AASHTO, BULB TEE, 63 IN, BR NO - 5
511-1000	37005	LB	BAR REINF STEEL
511-3000	LUMP	LS	SUPERSTR REINF STEEL, BR NO - 5 (34413)
514-1000	LUMP	LS	EPOXY COATED SUPERSTR REINF STEEL, BR NO - 5 (37962)
520-0597	4	EA	H-PILE POINTS, HP 14 X 117
520-1179	60	LF	PILING IN PLACE, STEEL H, HP 14 X 117
520-4179	1	EA	LOAD TEST, STEEL H, HP 14 X 117 (IF REQD)
524-0010	85	LF	DRILLED CAISSON - 42 IN
540-1200	LUMP	LS	REMOVAL OF PARTS OF EXISTING BR, STA NO - 138+90
544-1000	LUMP	LS	DECK DRAIN SYSTEM, BR NO - 5
620-0100	275	LF	TEMPORARY BARRIER, METHOD NO. 1
620-0200	481	LF	TEMPORARY BARRIER, METHOD NO. 2



SPLICE DETAILS FOR PILES

BRIDGE NO.5

GEORGIA <b>DEPARTMENT OF TRANSPORTATION</b> ENGINEERING DIVISION-OFFICE OF BRIDGES AND STRUCTURES	
<b>GENERAL NOTES</b> SR 400 TO I-85 RAMP SR 400/I-85 CONNECTOR RAMPS OVER LENOX ROAD AND NORTH FORK PEACHTREE CREEK FULTON COUNTY NH000-0085-02(153)	
SCALE: NO SCALE MARCH 2012	
DRAWING NO. 35.5 - 2 BRIDGE SHEET 2 OF 29	DESIGNED: JMO / GBL DRAWN: DB
CHECKED: KAK / MS DESIGN GROUP	REVIEWED: _____ APPROVED: _____

RELEASED FOR CONSTRUCTION  
 MARCH 15, 2012