

BRIDGE REPAIR CONSISTS OF

EXPANSION JOINT REPLACEMENT ----- SPECIAL DESIGN
 FIELD SPLICE BOLT REPLACEMENT ----- SPECIAL DESIGN
 BEARING REPLACEMENT ----- SPECIAL DESIGN
 TRAFFIC CONTROL-
 GENERAL NOTES, STANDARD LEGEND & MISC. DETAILS ----- GA STD. 9100 (3-06)
 TRAFFIC CONTROL DETAIL FOR LANE
 CLOSURE ON MULTILANE DIVIDED HIGHWAY ----- GA STD. 9106 (3-07)

TRAFFIC DATA

TRAFFIC ----- ADT = 14,550 (2009)
 ----- ADT = 21,825 (2029)
 DESIGN SPEED ----- 45 MPH
 TRUCKS ----- 0 %
 DIRECTIONAL ----- 100 %

CONSTRUCTION SEQUENCE

- JACK BRIDGE AT ABUTMENT 1 & 4 MINIMALLY (1/2" MAX.) TO RELIEVE THE EXISTING POT BEARINGS OF LOAD FROM THE BOX GIRDERS.
- REMOVE THE EXISTING POT BEARINGS (AS DETAILED) AT ABUTMENTS 1 AND 4.
- GRIND SMOOTH ALL WELD ON BOTTOM FLANGE OF BOX GIRDERS.
- INSTALL NEW BEARING STIFFENER PLATES IN BOX GIRDERS AT ABUTMENTS 1 AND 4.
- INSTALL NEW STEEL BEARING SOLE PLATES AND WELD IN PLACE TO BOTTOM FLANGE.
- INSTALL NEW STEEL BEARING BOTTOM PLATES, SHIM IN PLACE.
- INSTALL NEW ELASTOMERIC BEARINGS.
- LOWER BRIDGE TO FINAL ELEVATION WITHOUT TRANSFERRING THE WEIGHT OF THE BRIDGE ONTO THE BEARINGS.
- FORM AND PLACE CONCRETE REMOVED FROM CAP DURING POT BEARING REMOVAL (AS DETAILED).
- RELEASE JACKS TO TRANSFER BRIDGE WEIGHT ONTO THE NEW BEARINGS.
- STAGE TRAFFIC ACCORDING TO CONSTRUCTION STAGING SHEET & GEORGIA STANDARD TRAFFIC CONTROL DETAILS FOR STAGE 1 CONSTRUCTION.
- PERFORM HYDRO-DEMOLITION ON PORTIONS OF EXISTING DECK AND BACKWALL. REMOVE AND DISPOSE OF ALL COMPONENTS OF ARMORED JOINTS AS SHOWN.
- CLEAN EXISTING REINFORCEMENT.
- FORM AND PLACE NEW CONCRETE FOR DECK AND BACKWALL.
- REPLACE EXPANSION JOINTS (AS DETAILED) INCLUDING AT THE B.F.P.R. AT BENT 4.
- RESEAL CONSTRUCTION/DUMMY JOINTS (AS DETAILED).
- STAGE TRAFFIC ACCORDING TO CONSTRUCTION STAGING SHEET & GEORGIA STANDARD TRAFFIC CONTROL DETAILS FOR STAGE 2 CONSTRUCTION.
- REPEAT STEPS 9 THROUGH 13 FOR STAGE 2 CONSTRUCTION.
- REMOVE TRAFFIC CONTROL MEASURES AND OPEN BRIDGE TO TRAFFIC.
- REMOVE AND REPLACE FIELD SPLICE BOLTS (AS DETAILED). STAGE TRAFFIC ON I-285 ACCORDING TO GEORGIA STANDARD 9106.
- SANDBLAST AND PAINT ALL INTERIOR SPLICE BOLT CONNECTIONS PER SECTION 535 OF THE GEORGIA DOT SPECIFICATIONS. SEE GENERAL NOTES FOR LIMITS.
- REMOVE TRAFFIC CONTROL MEASURES ON I-285.

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.

TRAFFIC CONTROLS - TRAFFIC SHALL BE MAINTAINED IN ACCORDANCE WITH GEORGIA DOT STANDARD 9106. SEE ROADWAY PLANS FOR TRAFFIC CONTROL PAYMENT.

SHOP DRAWINGS - WHEN SUBMITTING SHOP DRAWINGS FOR THIS PROJECT TO THE DOT GENERAL OFFICE, SUBMIT THEM TO THE BRIDGE MAINTENANCE UNIT.

EXISTING BRIDGE PLANS - ORIGINAL BRIDGE PLANS MAY BE PURCHASED BY CONTACTING THE PLANS REPRODUCTION OFFICE AT (404) 347 - 0530. THE ORIGINAL BRIDGE WAS BUILT UNDER PROJECT NUMBER ACI-B-FI-285-1(297)CT.4

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.

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 E8108-C3 ELECTRODES FOR MANUAL SHIELDED METAL ARC WELDING.

EXISTING BRIDGE JOINTS - CLEAN EXISTING BRIDGE CONSTRUCTION AND DUMMY JOINTS OF ALL DIRT, REFUSE, AND EXISTING SEALANT AS PER SUB-SECTIONS 461.3.05.A OF THE GEORGIA DOT SPECIFICATIONS. SEAL JOINTS USING SILICONE SEALANT (TYPE D) AS PER SUBSECTIONS 461.3.05.C AND 833.2.06 OF THE GEORGIA DOT SPECIFICATIONS.

JACKING OF EXISTING BRIDGE - SEE SECTION 518 OF THE GEORGIA DOT SPECIFICATIONS.

PAINT - CLEAN AND PAINT THE INTERIOR OF EXISTING STRUCTURAL STEEL BOX GIRDERS 5 FEET BOTH SIDES OF ALL FIELD SPLICES AS PER SECTION 535 OF THE GEORGIA DOT SPECIFICATIONS. PAINT SHALL BE SYSTEM II EXCEPT THE TOP COAT SHALL BE CARBOLINE CARBOCRYLIC 3359DTM SAFETY RED COLOR 5555, SHERWIN WILLIAMS DTM ACRYLIC SAFETY RED PRODUCT NO. B66R38 OR APPROVED EQUIVALENT.

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

CONCRETE REMOVAL - SEE SPECIAL PROVISIONS - SECTION 519 - "PORTLAND CEMENT CONCRETE OVERLAYS."

CONCRETE OVERLAY - SEE SPECIAL PROVISIONS - SECTION 519 - "PORTLAND CEMENT CONCRETE OVERLAYS."

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, AND OTHER INCIDENTAL ITEMS NECESSARY TO COMPLETE THE WORK.

REPLACEMENT BOLTS - ALL REPLACEMENT BOLTS SHALL MEET THE REQUIREMENTS OF ASTM A325 TYPE 3, WEATHERING STEEL. ALL NUTS SHALL MEET THE REQUIREMENTS OF ASTM A563 GRADE DH3 AND ALL WASHERS SHALL MEET THE REQUIREMENTS OF ASTM F436 TYPE III. CONTRACTOR SHALL FIELD VERIFY BOLT SIZE PRIOR TO ORDERING MATERIALS.

SECTION 540 - "REMOVAL OF PARTS OF EXISTING BRIDGE, BR NO - 1" PAYMENT IS FOR THE REMOVAL OF POT BEARINGS ONLY.

SUMMARY OF QUANTITIES

PAY ITEM NUMBER	QUANTITY	UNIT	PAY ITEM
449-1620	70	LF	LOW-DENSITY, CLOSED CELL, X-LINKED, ETHYLENE VINYL ACETATE, POLYETHYLENE COPOLYMER, NITROGEN-BLOWN SEAL, BR NO - 1, BENT 1
449-1620	69	LF	LOW-DENSITY, CLOSED CELL, X-LINKED, ETHYLENE VINYL ACETATE, POLYETHYLENE COPOLYMER, NITROGEN-BLOWN SEAL, BR NO - 1, BENT 4
461-2000	461	LF	RESEALING BRIDGE JOINTS, TP-D
501-2000	5046	LB	STR STEEL
504-0600	2	CY	TWENTY-FOUR HOUR ACCELERATED STRENGTH CONC
511-1000	64	LB	BAR REINF STEEL
518-1000	LUMP	LS	RAISE EXISTING BRIDGE, STA 63+66.33
519-0400	33	SY	CONCRETE OVERLAY, PORTLAND CEMENT, VARB THK
535-1005	LUMP	LS	PAINT EXIST STEEL STRUCTURE, STA NO - 63+66.33
540-1202	LUMP	LS	REMOVAL OF PARTS OF EXISTING BRIDGE, BR NO - 1

EXISTING UTILITIES

TELEPHONE ----- SOUTHERN BELL
 POWER ----- GEORGIA POWER

DESIGN DATA

SPECIFICATIONS ----- AASHTO 17TH EDITION 2002
 (DESIGNED FOR SEISMIC PERFORMANCE CATEGORY A)

CONCRETE: SUPERSTRUCTURE ----- CLASS AA, f_c = 3,500 PSI
 SUBSTRUCTURE ----- CLASS AA, f_c = 3,500 PSI

EXISTING BRIDGE SERIAL NO. 063-0099-0
 EXISTING BRIDGE I.D. NO. 063-09096M-001.81E
 PROJECT P.I. NO. M004157
 BRIDGE NO. 1



STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
 ENGINEERING DIVISION - OFFICE OF BRIDGES AND STRUCTURES

GENERAL NOTES

CLARK HOWELL HWY OVER I-285
 CLAYTON COUNTY P.I. NO. M004157

NO SCALE DECEMBER 2010

DESIGNED	TBS	CHECKED	FRB/KAK	BMJ REVIEWED	CBB
DRAWN	TBS	REVIEWED	MS	APPROVED	MLC/PVL

NOTE: INFORMATION TAKEN FROM ORIGINAL PLANS.

DRAWING NO.	35 - 02
BRIDGE SHEET	2 OF 8

DATE	
REVISIONS	
BY	

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