

STATE	P.I. NUMBER	SHEET NO.	TOTAL SHEETS
GA.	M004588	41	75

BRIDGE REPAIR CONSISTS OF

- EXPANSION JOINT REPLACEMENT ----- SPECIAL DESIGN
- BEARING REPLACEMENT ----- SPECIAL DESIGN
- INTERMEDIATE BENT CAP REPLACEMENT ----- SPECIAL DESIGN
- EDGE BEAM REPLACEMENT ----- SPECIAL DESIGN
- SHEAR STUD INSTALLATION ----- SPECIAL DESIGN
- BAR BENDING DETAILS ----- GA. STD. 3901 (8-69)

CONSTRUCTION SEQUENCE

STAGE 1

1. SHIFT TRAFFIC IN ACCORDANCE WITH STAGE 1 OF THE ROADWAY PLANS.
2. TEMPORARILY SUPPORT BEAMS OF ADJACENT SPANS WHERE EXISTING STEEL BENT CAPS ARE TO BE REPLACED (BENTS 3-6).
3. REMOVE EXISTING STEEL BENT CAP (BENTS 3-6) TO ABOVE BOTTOM OF STEEL BEAM. CUT DOWN COLUMN TO ELEVATIONS SHOWN IN PLANS. INSTALL CAP BEARING PADS.
4. CONSTRUCT CONCRETE BENT CAP (BENTS 3-6). INSTALL BEAM BEARING PADS.
5. AFTER BENT CONCRETE REACHES THE REQUIRED 28 DAY COMPRESSIVE STRENGTH, REMOVE TEMPORARY SUPPORTS.
6. EPOXY INJECT AND PATCH SPALLS AT EXISTING COLUMNS.

STAGE 2

1. SHIFT TRAFFIC IN ACCORDANCE WITH STAGE 2 OF THE ROADWAY PLANS.
2. REMOVE REMAINING PORTION OF STEEL BENT CAP.
3. REPLACE EXISTING EDGE BEAM AS SHOWN IN PLANS.
4. REPEAT STAGE 2 UNTIL ALL THE EDGE BEAMS ARE REPLACED.

STAGE 3

1. SHIFT TRAFFIC IN ACCORDANCE WITH STAGE 3 OF ROADWAY PLAN.
2. REPLACE DECK STRIP AS SHOWN IN PLANS.
3. CUT CONCRETE DECK AND INSTALL SHEAR STUDS IN SPAN 7 RT. BR. AND SPAN 1 LT. BR. AS SHOWN IN PLANS.
4. INSTALL NEW EXPANSION JOINTS.
5. POUR POLYMER OVERLAY.

STAGE 4

1. SHIFT TRAFFIC IN ACCORDANCE WITH STAGE 4 OF ROADWAY PLAN.
2. REPEAT STEPS 3 - 5 IN STAGE 3.

THE AFOREMENTIONED SEQUENCE SHALL BE COORDINATED WITH ROADWAY OPERATIONS, SEE ROADWAY PLANS. IN LIEU OF THE ABOVE CONSTRUCTION SEQUENCE, THE CONTRACTOR MAY SUBMIT A PROPOSED CONSTRUCTION SEQUENCE FOR APPROVAL.

TRAFFIC DATA

- TRAFFIC ----- ADT = 95,400 (2013)
ADT = 156,000 (2033)
- DESIGN SPEED ----- 70 MPH
- TRUCKS ----- 15 %
- 24 HR TRUCKS ----- 22 %
- DIRECTIONAL ----- 50 %

UTILITIES

NO UTILITIES ON BRIDGE

GENERAL NOTES

- SPECIFICATIONS - GEORGIA STANDARD SPECIFICATIONS, 2013 EDITION, 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 - 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.GA.GOV/DOINGBUSINESS/RESEARCH/PAGES/ROADDESIGNSEARCH.ASPX

THE ORIGINAL BRIDGE/ROADWAY WAS BUILT UNDER PROJECT NUMBER 1.85-1(39)46 AND WAS WIDENED UNDER PROJECT NUMBERS IR-85-1(308) AND NHS-M002-00(434).
- 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.
- ANCHOR BOLTS - PLACE ANCHOR BOLTS IN FORMED 3" DIAMETER X 15" DEEP HOLES AND GROUT IN PLACE AS PER SUB-SECTION 501.3.05.B.3 OF THE GEORGIA DOT SPECIFICATIONS. STIRRUPS MAY BE SHIFTED SLIGHTLY TO CLEAR ANCHOR BOLT HOLES.
- 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. USE ONLY E70XX (EXCLUDING E7014 AND E7024) LOW HYDROGEN ELECTRODES FOR MANUAL SHIELDED METAL ARC WELDING.
- EXISTING BRIDGE JOINTS - CLEAN EXISTING BRIDGE EXPANSION JOINTS OF ALL DIRT, REFUSE, AND EXISTING SEALANT AND SEAL JOINTS USING PREFORMED SILICONE JOINT SEAL AS PER SECTION 449.2.J OF THE GEORGIA DOT SUPPLEMENTAL SPECIFICATIONS. INCLUDE THE COST OF MATERIALS AND INSTALLATION IN THE PRICE BID FOR PAY ITEM 449-1350.
- JACKING OF EXISTING BRIDGE - SEE SECTION 518 OF THE GEORGIA DOT SPECIFICATIONS.
- 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, DRILLING, EPOXY, WATERPROOFING, JOINT FILLERS, AND OTHER INCIDENTAL ITEMS NECESSARY TO COMPLETE THE WORK.

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 ----- 15 LBS PER SQ FT (ORIGINAL STRUCTURE)
30 LBS PER SQ FT (WIDENED STRUCTURE)
- CONCRETE: SUPERSTRUCTURE ----- CLASS AA, f'c = 3,500 PSI
SUBSTRUCTURE ----- CLASS AA, f'c = 3,500 PSI
- REINFORCEMENT STEEL: ----- GRADE 60, fy = 60,000 PSI

SUMMARY OF QUANTITIES

PAY ITEM NUMBER	QUANTITIES		UNIT	PAY ITEM
	LEFT BRIDGE	RIGHT BRIDGE		
449-1350	402	----	LF	PREFORMED SILICONE JOINT SEAL, BR NO - 1 LT, BENTS 2-7 BENTS 2-7
449-1350	----	402	LF	PREFORMED SILICONE JOINT SEAL, BR NO - 1 RT, BENTS 2-7 BENTS 2-7
500-3002	154	154	CY	CLASS AA CONCRETE
500-3101	54	----	CY	CLASS A CONCRETE
501-2000	226	226	LB	STR STEEL
504-0600	61	61	CY	TWENTY-FOUR HOUR ACCELERATED STRENGTH CONC
511-1000	47420	47420	LB	BAR REINF STEEL
511-3000	LUMP	----	LS	SUPERSTR REINF STEEL, BR NO - 1 LT (18269)
511-3000	----	LUMP	LS	SUPERSTR REINF STEEL, BR NO - 1 RT (16067)
518-1000	LUMP	LUMP	LS	RAISE EXISTING BRIDGE, STA - 930+00
519-0515	3900	3919	SY	SURFACE PREPARATION
519-0530	3900	3919	SY	POLYMER OVERLAY
521-3000	75	54	SF	PATCHING CONCRETE BRIDGE
528-0501	99	129	LF	EPOXY PRESSURE INJECTION OF CONCRETE CRACKS
540-1202	LUMP	----	LS	REMOVAL OF PARTS OF EXISTING BRIDGE, BR NO - 1 LT
540-1202	----	LUMP	LS	REMOVAL OF PARTS OF EXISTING BRIDGE, BR NO - 1 RT

BRIDGE NO.1 LT. & RT.



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

GENERAL NOTES
I-85 OVER TRANSCONTINENTAL PIPELINE
COWETA COUNTY P.I. NO. M004588

SCALE: NO SCALE SEPTEMBER 2013

DRAWING NO. 35 - 002	BRIDGE SHEET 2 OF 10	DESIGNED BCB	CHECKED BCB	DESIGNED BKA	CHECKED GBL/MS	BMJ REVIEWED CLB	APPROVED BFR
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