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BRIDGE CONSISTS OF

1 - 50'-0" TYPE II PSC BEAM SPAN ---------- SPECIAL DESIGN

1 - 71'-0" TYPE II PSC BEAM SPAN ---------- SPECIAL DESIGN

1 - 57'-0" TYPE II PSC BEAM SPAN ---------- SPECIAL DESIGN

2 - PSC PILE END BENTS ---------- SPECIAL DESIGN

2 - CONCRETE INTERMEDIATE BENTS ---------- SPECIAL DESIGN

4 - END POST AND GUARDRAIL ATTACHMENT DETAIL ------- GA. STD. 3054 (9-30-02)
(L = 4'-0"; W = 1'-1"; H = 2'-8")
(L = 4'-3"; W = 1'-1"; H = 2'-8")

SQUARE PRESTRESSED CONCRETE PILES ---------- GA. STD. 3215 (2-22-84)

BAR BENDING DETAILS ---------- GA. STD. 3901 (8-69)

TYPICAL FILL DETAIL AT END OF BRIDGE ---------- GA. STD. 9037 (9-99)

TRAFFIC DATA

TRAFFIC ---------- ADT = 3350 (2012)
ADT = 4500 (2032)
DESIGN SPEED ---------- 55 MPH
% TRUCKS ---------- 18.5 %
24 HR TRUCKS ---------- 18.5 %
DIRECTIONAL ---------- 50 %

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

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.

RAILROAD SIDE DITCHES - PRIOR TO THE BEGINNING OF CONSTRUCTION, CLEAN THE RAILROAD SIDE DITCHES IN THE CONSTRUCTION AREA IN SUCH A MANNER AS TO PROVIDE POSITIVE DRAINAGE. MAINTAIN THE RAILROAD SIDE DITCHES FREE OF SILT AND DEBRIS UNTIL FINAL ACCEPTANCE. SEE ROADWAY PLANS FOR EROSION CONTROL AND PAYMENT.

PROTECTIVE PLATFORMS - PROVIDE PROTECTIVE PLATFORMS AT THIS SITE, SEE SECTION 510 OF THE GEORGIA DOT SPECIFICATIONS. MAINTAIN A MINIMUM VERTICAL CLEARANCE OF 22'-0" ABOVE TOP OF RAILS.

TEMPORARY SHORING - INCLUDE THE COST OF TEMPORARY SHORING AS NECESSARY FOR BRIDGE CONSTRUCTION IN THE OVERALL BID SUBMITTED.

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

EXISTING BRIDGE PLANS - ORIGINAL BRIDGE PLANS ARE NOT AVAILABLE.

WAITING PERIOD - NONE REQUIRED.

PLAN DRIVING OBJECTIVE - SEE SUBSTRUCTURE DETAILS.

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.

BENT NUMBER	PILE TIP ELEVATION
1 AND 4	167.00
2	132.00
3	157.00

TEST PILES - DRIVE TEST PILES AT THE FOLLOWING LOCATIONS:

ONE 14 IN SQ PSC X 50 FT AT BENT 4.
ONE 16 IN SQ PSC X 55 FT AT BENT 2.

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.

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 AND END POST AT BENT 4 TO 1¼". SEE ROADWAY PLANS FOR APPROACH SLAB PAYMENT.

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.

SALVAGE MATERIAL - STRUCTURAL STEEL BEAMS SHALL BE SALVAGED FROM THE EXISTING BRIDGE AS PART OF THIS PROJECT. CUT THE CONTINUOUS BEAMS IN SPANS 1 & 2, AND 6 & 7 TO LENGTHS OF APPROXIMATELY 38 FEET. SPAN 4 BEAMS SHALL BE SALVAGED AT THEIR ORIGINAL LENGTH OF APPROXIMATELY 27 FEET. SPANS 3 AND 5 BEAMS SHALL NOT BE SALVAGED. SALVAGED BEAMS SHALL BE DELIVERED TO THE DISTRICT 5 MAINTENANCE STORAGE AREA IN JESUP, GA. THE DISTRICT BRIDGE MAINTENANCE ENGINEER SHALL BE CONTACTED 2 WEEKS PRIOR TO DELIVERY TO ARRANGE FOR THE UNLOADING OF THESE MATERIALS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOADING, TRANSPORT AND UNLOADING OF ALL SALVAGED MATERIALS.

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

PAY ITEM NUMBER	QUANTITY	UNIT	PAY ITEM
211-0200	90	CY	BRIDGE EXCAVATION, GRADE SEPARATION
441-0004	739	SY	CONC SLOPE PAV, 4 IN
500-0100	752	SY	GROOVED CONCRETE
500-1006	LUMP	LS	SUPERSTR CONCRETE, CL AA, BR NO - 1 (221)
500-2100	344	LF	CONCRETE BARRIER
⚠ 500-3002	152 ~~145~~	CY	CLASS AA CONCRETE
507-9002	1261	LF	PSC BEAMS, AASHTO TYPE II, BR NO - 1
⚠ 511-1000	33339 ~~33201~~	LB	BAR REINF STEEL
511-3000	LUMP	LS	SUPERSTR REINF STEEL, BR NO - 1 (56743)
520-2214	479	LF	PILING, PSC, 14 IN SQ
520-2216	615	LF	PILING, PSC, 16 IN SQ
520-3214	1	EA	TEST PILE, PSC, 14 IN SQ
520-3216	1	EA	TEST PILE, PSC, 16 IN SQ
520-4214	1	EA	LOAD TEST, PSC, 14 IN SQ (IF REQD)
520-4216	1	EA	LOAD TEST, PSC, 16 IN SQ (IF REQD)
540-1102	LUMP	LS	REMOVAL OF EXISTING BR, BR NO - 1

USE ON CONSTRUCTION

BRIDGE NO. 1

REVISIONS	BY	DATE
REVISED QUANTITIES	LAW	02-13-12

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

GENERAL NOTES
SR 31 - US 319/441 OVER
HEART OF GEORGIA RAILROAD

WHEELER CO. BR000-0001-00(220)

DRAWING NO. 35-02
BRIDGE SHEET 2 OF 15

NO SCALE FEBRUARY 2011

DESIGNED LAW CHECKED WMD/WEI/DKW REVIEWED WMD/WEI
DRAWN LAW DESIGN GROUP LAW APPROVED BFR

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