

BRIDGE CONSISTS OF

GENERAL NOTES (CONTINUED)

RELEASED FOR CONSTRUCTION: 05/21/2013
USE ON CONSTRUCTION: 10/07/2015

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	CSMSL-0008-00(690)	491	730

DESIGN DATA

- 1 - 120'-0" BULB TEE, 65 IN, PSC BEAM SPAN ----- SPECIAL DESIGN
- 2 - PSC PILE END BENTS ----- SPECIAL DESIGN
- 3 - END POST AND GUARDRAIL ATTACHMENT DETAIL ----- GA. STD. 3054 (9-30-02)
 - 2 - (L = 4'-0"; W = 1'-1"; H = 3'-6")
 - 1 - (L = 4'-6"; W = 1'-1"; H = 3'-6")
- SQUARE PRESTRESSED CONCRETE PILES ----- SPECIAL DESIGN
SEE DRAWING NO. 37-01 TO 37-05
- BAR BENDING DETAILS ----- GA. STD. 3901 (8-69)
- TYPICAL FILL DETAIL AT END OF BRIDGE ----- GA. STD. 9037 (9-99)

WAVE EQUATION - PERFORM WAVE EQUATION ANALYSIS (WEAP) IN ACCORDANCE WITH SPECIAL PROVISION 520. PROVIDE RESULTS OF THE WEAP TO THE GEOTECHNICAL BUREAU OF THE GEORGIA DOT FOR REVIEW AND APPROVAL TWO WEEKS PRIOR TO DRIVING PILES.

TEST PILES - DRIVE TEST PILES AT THE FOLLOWING LOCATIONS:

- ONE 18 IN SQ PSC X 104 FT AT BENT 1
- ONE 18 IN SQ PSC X 95 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.

ABUTMENT SOIL REINFORCING DEVICE INSERTS - INCLUDE THE COST OF FURNISHING AND INSTALLING INSERTS FOR SOIL REINFORCING DEVICES AT ABUTMENT IN THE OVERALL BID SUBMITTED.

FILL SETTLEMENT - PROTECT PILES DRIVEN AT BENTS 1 AND 2 FROM NEGATIVE SKIN FRICTION WHEN USED IN CONJUNCTION WITH MECHANICALLY STABILIZED EARTH WALLS, SEE SECTION 551 OF THE GEORGIA DOT SPECIFICATIONS. DRIVE PILES AT END BENTS BEFORE WALL LEVELING PADS ARE CONSTRUCTED.

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.

RIDING QUALITY - THE FINISHED BRIDGE DECK AND APPROACH SLABS SHALL MEET THE RIDE QUALITY REQUIREMENTS AS SPECIFIED IN SUB-SECTION 500.3.06.E OF THE GEORGIA DOT SPECIFICATIONS FOR STATE ROUTES WITH FOUR LANES OR MORE.

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.

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.

DESIGN BUILD PROJECT - THIS IS A DESIGN BUILD PROJECT AND QUANTITIES ARE PROVIDED FOR INFORMATION ONLY.

SPECIFICATIONS ----- AASHTO LRFD 5TH EDITION, 2010
(DESIGNED FOR SEISMIC PERFORMANCE ZONE 2)

TYPICAL HL-93 LOADING ----- IMPACT ALLOWED

FUTURE PAVING ALLOWANCE ----- 30 LBS PER SQ FT

CONCRETE: SUPERSTRUCTURE ----- CLASS D, $f'_c = 4,000$ PSI
 BARRIER ----- CLASS D, $f'_c = 4,000$ PSI
 PSC BEAMS ----- CLASS AAA, $f'_c = 8,500$ PSI
 PSC BEAM ALLOWABLE TENSION ----- 277 PSI
 SUBSTRUCTURE ----- CLASS A, $f'_c = 3,000$ PSI

REINFORCEMENT STEEL: ----- GRADE 60, $f_y = 60,000$ PSI

PRETENSIONING STRANDS: ----- $f'_p = 270,000$ PSI

TRAFFIC DATA

- TRAFFIC ----- ADT = 23,360 (2012)
ADT = 30,880 (2032)
- DESIGN SPEED ----- 55 MPH
- TRUCKS ----- 60 %
- 24 HR TRUCKS ----- 55 %
- DIRECTIONAL ----- 54 %

UTILITIES

NO UTILITIES ON BRIDGE

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. ONCE APPROVED AND STAMPED BY EOR, EOR SHALL SUBMIT 6 STAMPED SETS TO THE GEORGIA DOT OFFICE OF BRIDGES AND STRUCTURES FOR REVIEW AND APPROVAL.

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 NORFOLK SOUTHERN RAILWAY.

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

WAITING PERIOD - DO NOT BEGIN WORK AT BENTS 1 AND 2 UNTIL THE COMPLETED END FILLS ARE IN PLACE AND SETTLEMENT IS COMPLETE. ESTABLISH SETTLEMENT MONITORING POINTS AT EACH BRIDGE BENT LOCATION. SETTLEMENTS ARE TO BE READ BY A SURVEYOR AT LEAST TWICE WEEKLY. ONCE THE CUMULATIVE SETTLEMENT, OVER A PERIOD OF 3 WEEKS, DOES NOT EXCEED 1/4 OF AN INCH, THE SETTLEMENT IS CONSIDERED TO HAVE CEASED.

PLAN DRIVING OBJECTIVE - SEE SUBSTRUCTURE DETAILS.

PDA TESTING - PERFORM PILE TESTING USING THE PILE DRIVING ALAYZER (PDA) IN ACCORDANCE WITH SPECIAL PROVISION SECTION 523. NOTIFY THE GEOTECHNICAL BUREAU OF THE GEORGIA DOT OFFICE OF MATERIALS AT 404-608-4720 TWO WEEKS PRIOR TO DRIVING PILES.

SUMMARY OF QUANTITIES

PAY ITEM NUMBER	QUANTITY	UNIT	PAY ITEM
500-0100	909	SY	GROOVED CONCRETE
500-1011	LUMP	LS	SUPERSTR CONCRETE, CL D, BR NO - 3 (368)
500-2100	231	LF	CONCRETE BARRIER
500-3101	59	CY	CLASS A CONCRETE
507-9034	946	LF	PSC BEAMS, AASHTO, BULB TEE, 65 IN, BR NO - 3
511-1000	7031	LB	BAR REINF STEEL
△ 511-3000	LUMP	LS	SUPERSTR REINF STEEL, BR NO - 3 (74465) 75187
520-2218	1625	LF	PILING, PSC, 18 IN SQ
520-3218	2	EA	TEST PILE, PSC, 18 IN SQ
520-4218	1	EA	LOAD TEST, PSC, 18 IN SQ (IF REQD)

BRIDGE NO. 3

 THE LPA GROUP INCORPORATED TRANSPORTATION CONSULTANTS 3595 ENGINEERING DRIVE NORCROSS, GEORGIA 30092 (770) 253-9118	
GEORGIA DEPARTMENT OF TRANSPORTATION ENGINEERING DIVISION-OFFICE OF BRIDGES AND STRUCTURES	
GENERAL NOTES JIMMY DELOACH CONNECTOR OVER NORFOLK SOUTHERN RAILWAY CHATHAM COUNTY CSMSL-0008-00(690)	
SCALE: 1" = 10'-0" MAY 2013	
DRAWING NO. 35-20 BRIDGE SHEET 2 OF 10	DESIGNED JCR DRAWN JCR CHECKED ANZ/AWB DESIGN GROUP SKG REVIEWED DLC/WMD APPROVED BFR