

STATE	PROJECT NUMBER	SHEET NO	TOTAL SHEETS
GA	NH000-00TS-00(047)	78	104

GENERAL NOTES

METRIC PLANS - THESE PLANS ARE DETAILED USING THE METRIC (SI) SYSTEM OF UNITS. DIMENSIONS SHOWN IN THE PLANS ARE IN MILLIMETERS (mm) UNLESS OTHERWISE NOTED. ELEVATIONS ARE IN METERS. REINFORCING BARS IN METRIC SIZE DESIGNATIONS SHOWN SHALL BE PROVIDED AS PER ASTM A 615M. IN THE BAR MARK, THE FIRST TWO DIGITS ARE THE METRIC BAR SIZE (I.E., BAR 1314 IS A NO. 13 METRIC SIZE BAR).

SPECIFICATIONS - GEORGIA STANDARD SPECIFICATIONS, 1995 METRIC EDITION, AS MODIFIED BY CONTRACT DOCUMENTS.

REINFORCING STEEL - ALL REINFORCING STEEL SHALL BE PLACED AND TIED IN ACCORDANCE WITH THE GEORGIA D.O.T. SPECIFICATIONS. WELDING OF REINFORCING STEEL WILL NOT BE PERMITTED.

CHAMFER - ALL EXPOSED CONCRETE EDGES SHALL BE CHAMFERED 19 mm UNLESS OTHERWISE NOTED.

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

PROTECTIVE PLATFORMS - PROTECTIVE PLATFORMS WILL BE REQUIRED AT THIS SITE, SEE SECTION 510 OF THE GEORGIA D.O.T. SPECIFICATIONS. CONTRACTOR SHALL MAINTAIN A MINIMUM VERTICAL CLEARANCE OF 6.71 m ABOVE RAILROAD.

△ **TEMPORARY SHORING** - THE COST OF TEMPORARY SHORING AS NECESSARY FOR BRIDGE CONSTRUCTION AND REMOVAL OF EXISTING PUMP HOUSE SHALL BE INCLUDED IN THE OVERALL BID SUBMITTED.

TRAFFIC CONTROLS - ROAD TO BE CLOSED DURING BRIDGE CONSTRUCTION. SEE ROADWAY PLANS FOR DETOUR, TRAFFIC CONTROLS AND TRAFFIC CONTROL PAYMENT.

EXISTING BRIDGE PLANS - PLANS FOR EXISTING BRIDGE MAY BE PURCHASED BY CONTACTING THE PLANS REPRODUCTION OFFICE AT (404) 656-5401. THE EXISTING BRIDGE WAS BUILT UNDER PROJECT NUMBER WPGM 2586.

WAITING PERIOD - NONE REQUIRED.

PLAN DRIVING OBJECTIVE - SEE SUBSTRUCTURE DETAILS.

DRIVING DATA PILES - ONE DRIVING DATA PILE SHALL BE REQUIRED AT BENTS 1 AND 3.

SMOOTH DOWEL BARS - SMOOTH DOWEL BARS SHALL BE PLACED IN FORMED 75 mm DIAMETER X 300 mm DEEP HOLES AND GROUTED IN PLACE SIMILAR TO ANCHOR BOLTS, SEE SUB-SECTION 501.06.F.3 OF THE GEORGIA D.O.T. SPECIFICATIONS. STIRRUPS MAY BE SHIFTED SLIGHTLY TO CLEAR FORMED HOLES.

STANDARD PLAN MODIFICATION - THE APPROACH SLAB STANDARD SHALL BE MODIFIED TO INCREASE THE 20 mm EXPANSION JOINT SHOWN BETWEEN THE APPROACH SLAB AND THE BACK FACE PAVING REST TO 32 mm AT BENT 4 ONLY. SEE ROADWAY PLANS FOR APPROACH SLAB PAYMENT.

GROOVED CONCRETE - THE ENTIRE LENGTH OF THE BRIDGE SHALL BE GROOVED TRANSVERSELY AS PER SUB-SECTION 500.11.C.6.C.(2) OF THE GEORGIA D.O.T. SPECIFICATIONS. GROOVE UNDER SIDEWALKS AND MEDIAN.

△ **WELDING** - ALL WELDING ON GEORGIA D.O.T. PROJECTS SHALL BE PERFORMED BY CERTIFIED WELDERS THAT HAVE IN THEIR POSSESSION A CURRENT WELDING CERTIFICATION CARD ISSUED BY THE GEORGIA D.O.T. OFFICE OF MATERIALS AND RESEARCH. ONLY E70XX (EXCLUDING E7014 AND E7024) LOW HYDROGEN ELECTRODES SHALL BE USED FOR MANUAL SHIELDED METAL ARC WELDING.

SALVAGE MATERIAL - EXISTING PUMP LOCATED AT CENTRAL OF GEORGIA RAILROAD OVERPASS SHALL BE SALVAGED FOR USE BY THE CITY OF COLUMBUS. THE CITY ENGINEER SHALL BE NOTIFIED AND AT A MUTUALLY AGREEABLE TIME THE PUMP SHALL BE LOADED ON CITY OF COLUMBUS VEHICLE BY THE CONTRACTOR. NO OTHER MATERIAL REMOVED FROM THE EXISTING STRUCTURE SHALL BE SALVAGED FOR USE BY THE GEORGIA DEPARTMENT OF TRANSPORTATION. THE EXISTING BRIDGE SHALL STAY IN PLACE. THE COST OF SALVAGING THE EXISTING PUMP AND LOADING THE PUMP ON CITY OF COLUMBUS VEHICLES SHALL BE INCLUDED IN THE PRICE BID FOR CONTRACT ITEMS.

INCIDENTAL ITEMS - COST INCIDENTAL TO THE WORK THAT IS NOT SPECIFICALLY COVERED BY THE GEORGIA STANDARD SPECIFICATIONS, SUPPLEMENTAL SPECIFICATIONS AND/OR SPECIAL PROVISIONS SHALL BE INCLUDED IN THE OVERALL BID SUBMITTED. THIS INCLUDES THE COST OF WATERPROOFING, JOINT FILLERS, AND OTHER INCIDENTAL ITEMS NECESSARY TO COMPLETE THE WORK.

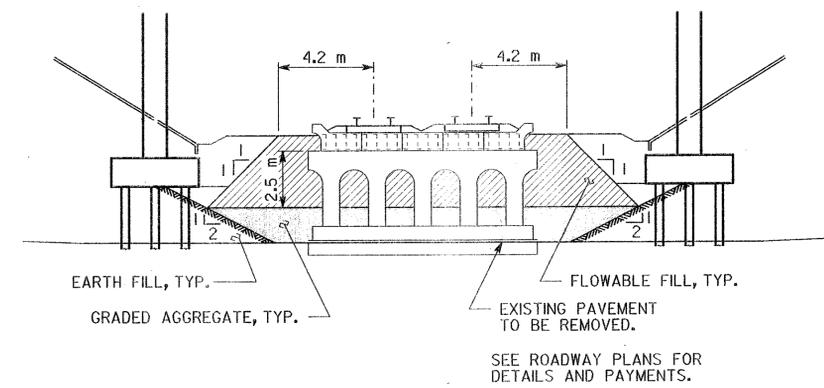
△ **PARAPET FORMWORK** - THE CONTRACTOR SHALL PROVIDE TO THE GEORGIA DOT A SECTION OF FORMWORK UTILIZED IN THE CONSTRUCTION OF THE CONCRETE PARAPET. THE DEPARTMENT SHALL RECEIVE ENOUGH FORMWORK TO BE ABLE TO CONSTRUCT ANY PORTION OF THE PARAPET. THE DISTRICT 3 MAINTENANCE ENGINEER SHALL BE NOTIFIED AND AT A MUTUALLY AGREEABLE TIME THE FORMWORK SHALL BE LOADED ONTO A GEORGIA DOT VEHICLES BY THE CONTRACTOR.

△ **BRIDGE EXCAVATION** - THE COSTS OF REMOVING PORTIONS OF THE EXISTING RETAINING WALLS AND PUMP HOUSE NECESSARY TO CONSTRUCT THE BRIDGE SUBSTRUCTURE SHALL BE INCLUDED IN THE PRICE BID FOR BRIDGE EXCAVATION.

CONSTRUCTION SEQUENCE

1. CLOSE SR 1 (US 27, VETERANS PARKWAY) TO TRAFFIC.
2. REMOVE EXISTING PAVEMENT BETWEEN STATION 1+490± AND STATION 1+558±.
3. REMOVE PORTION OF EXISTING WALL BETWEEN STATION 1+497.5± RIGHT AND STATION 1+500.5± RIGHT AND BETWEEN STATION 1+547.5± LEFT AND STATION 1+550.5± LEFT WHICH CONFLICTS WITH DRIVING PILES AT BENTS 1 AND 4.
4. PLACE EARTH FILL AS SHOWN BETWEEN STATION 1+240± AND STATION 1+516± AND BETWEEN STATION 1+532± AND STATION 1+760± MAINTAINING A TWO TO ONE SLOPE.
5. PLACE GRADED AGGREGATE AS SHOWN BENEATH EXISTING RAILROAD BRIDGE WITHIN 2.5-m BELOW THE BOTTOM OF THE BEAM.
6. PLACE FLOWABLE FILL AS SHOWN WITHIN 4.2-m OF CENTERLINE OF RAILROAD MAINTAINING A ONE TO ONE SLOPE. IF FLOWABLE FILL CONFLICTS WITH THE PROPOSED BRIDGE SUBSTRUCTURE AT BENTS 2 AND 3, TEMPORARY SHORING SHALL BE USED.
7. REMOVE PORTION OF EXISTING PUMP HOUSE WHICH CONFLICTS WITH CONSTRUCTION OF BENT 3 FOOTING.
8. BUILD BRIDGE ACCORDING TO PLANS.
9. OPEN COMPLETED BRIDGE TO TRAFFIC.

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.



DETAIL OF FILL AT EXISTING RAILROAD BRIDGE

BRIDGE CONSISTS OF

- 2 - 13 m TYPE II PSC BEAM SPANS WITH TYPE III FASCIA BEAMS - SPECIAL DESIGN
- 1 - 24 m TYPE III PSC BEAM SPAN ----- SPECIAL DESIGN
- 2 - STEEL H PILE END BENTS ----- SPECIAL DESIGN
- 2 - CONCRETE INTERMEDIATE BENTS ----- SPECIAL DESIGN
- 4 - END POST AND GUARDRAIL ATTACHMENT DETAIL --- GA. STD. 3054 (3-14-97)
(L = 1200 mm; W = 330 mm; H = 1070 mm)
- △ (L = 1350 mm; W = 330 mm; H = 1070 mm)
- BAR BENDING DETAILS ----- GA. STD. 3901 (8-21-96)
- CHAIN LINK WIRE FENCE ----- GA. STD. 9031N (5-96)
- TYPICAL FILL DETAIL AT END OF BRIDGE ----- GA. STD. 9037 (10-10-97)

UTILITIES

GEORGIA POWER - LIGHTING

TRAFFIC DATA

TRAFFIC ----- ADT = 31 600 (2000)
ADT = 46 500 (2020)
DESIGN SPEED ----- 60 km/h
TRUCKS ----- 5 %
DIRECTIONAL ----- 50 %

DESIGN DATA

SPECIFICATIONS ----- AASHTO 1996 WITH 1997 & 1998 INTERIMS
(DESIGNED FOR SEISMIC PERFORMANCE CATEGORY A)
TYPICAL MS-18 AND/OR MILITARY LOADING ----- IMPACT ALLOWED
FUTURE PAVING ALLOWANCE ----- 1.44 kN/m²
CONCRETE: SUPERSTRUCTURE ----- CLASS AA, f_c = 25 MPa
PSC BEAMS ----- CLASS AAA, SEE PLANS
SUBSTRUCTURE ----- CLASS A, f_c = 20 MPa
REINFORCEMENT STEEL: ----- GRADE 420, f_y = 420 MPa
PRETENSIONING STRANDS: ----- f_p = 1860 MPa

SUMMARY OF QUANTITIES

PAY ITEM NUMBER	QUANTITY	UNIT	PAY ITEM
△ 211-0200	285 +75	m ³	BRIDGE EXCAVATION, GRADE SEPARATION
△ 441-0004	1107	m ²	CONC SLOPE PAV, 100 mm
500-0100	1590	m ²	GROOVED CONCRETE
△ 500-1006	LUMP	LS	SUPERSTR CONCRETE, CL AA, BR NO - 1 (5+7) 485
△ 500-2110	96	m	CONCRETE PARAPET, SPECIAL DESIGN
△ 500-3101	330 -348	m ³	CLASS A CONCRETE
507-9002	302	m	PSC BEAMS, AASHTO TYPE II, BR NO - 1
507-9003	383	m	PSC BEAMS, AASHTO TYPE III, BR NO - 1
△ 511-1000	33 420 -35 689	kg	BAR REINF STEEL
△ 511-3000	LUMP	LS	SUPERSTR REINF STEEL, BR NO - 1 (59-96) 57 603
520-1104	834	m	PILING IN PLACE, STEEL H, HP 250 X 62
△ 520-1147	509 -432	m	PILING IN PLACE, STEEL H, HP 360 X 108
520-4104	1	EA	LOAD TEST, STEEL H, HP 250 X 62 (IF REQD)
520-4147	1	EA	LOAD TEST, STEEL H, HP 360 X 108 (IF REQD)
△ 643-1152	95	m	CH LK FENCE, ZC COAT, 1.8 m, 9 GA

BRIDGE NO. 1

REVISIONS DATE 03-21-02 05-10-01 02-14-01 11-30-00		GEORGIA DEPARTMENT OF TRANSPORTATION PRECONSTRUCTION DIVISION-OFFICE OF BRIDGE DESIGN	
BY D.L.C. D.L.C. D.L.C. D.L.C.		GENERAL NOTES SHEET S.R. 1 (U.S. 27, VETERANS PARKWAY) OVER CENTRAL OF GEORGIA RAILROAD MUSCOGEE COUNTY NH-011-1(44)	
BRIDGE SHEET 2 OF 15		NO SCALE JANUARY 2000	
DESIGNED: D.L.C. DRAWN: W.M.C.		CHECKED: S.W.W. DESIGN GROUP: S.W.W.	
REVENED: M.C.D./J.P.T. APPROVED: P.V.L.		M321810BLDGN	