

BRIDGE CONSISTS OF

- 1 - 80'-0" BULB TEE, 54 IN, PSC BEAM SPAN----- SPECIAL DESIGN
 - 1 - 95'-0" BULB TEE, 54 IN, PSC BEAM SPAN----- SPECIAL DESIGN
 - 1 - 40'-0" REINFORCED CONCRETE DECK GIRDER 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 (9-30-02)
(L = 4'-0"; W = 1'-1"; H = 3'-6")
- BAR BENDING DETAILS ----- GA. STD. 3901 (8-69)
TYPICAL FILL DETAIL AT END OF BRIDGE ----- GA. STD. 9037 (10-20-97)
ONE PIPE ALUMINUM HANDRAILING ----- GA. STD. 3626 (10-22-85)

DRAINAGE DATA

DRAINAGE AREA 7.0 SQUARE MILES

FLOOD FREQUENCY	TOTAL DISCHARGE	MEAN VELOCITY	AREA OF OPENING UNDER HIGHWATER
50 YEAR	2681 CF/S	3.43 FT/S	782 SF
100 YEAR	3111 CF/S	3.66 FT/S	850 SF
500 YEAR	4132 CF/S	4.10 FT/S	1007 SF

UTILITIES

NONE

TRAFFIC DATA

TRAFFIC ----- ADT = 13,500 (2006)
ADT = 21,000 (2026)
DHV = 2,100 (2026)

% 24 HR TRUCKS ----- 9%
% TRUCKS ----- 7%
DIRECTIONAL DIST ----- 60%
SPEED DESIGN ----- 55 MPH

DESIGN DATA

SPECIFICATIONS --- AASHTO 1996 WITH 1997, 1998, 1999 & 2000 INTERIMS
(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
REINFORCED CONCRETE DECK GIRDERS - CLASS AA, $f_c = 3,500$ PSI
PSC BEAMS ----- CLASS AAA, $f_c = 7,000$ PSI
PSC BEAM ALLOWABLE TENSION ----- 502 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

GENERAL NOTES

SPECIFICATIONS - GEORGIA STANDARD SPECIFICATIONS, 2001 EDITION AS MODIFIED BY CONTRACT DOCUMENTS.

WORKING DRAWINGS - WHEN SUBMITTING SHOP DRAWINGS FOR THIS PROJECT TO THE D.O.T. GENERAL OFFICE FOR REVIEW, THEY SHALL BE SENT TO THE OFFICE OF CONSULTANT DESIGN.

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

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

DETOUR BRIDGE - DETOUR BRIDGE SHALL BE REQUIRED AT THIS SITE, SEE SECTION OF THE GEORGIA DOT SPECIFICATIONS. THE MINIMUM BOTTOM OF BEAM ELEVATION OF THE DETOUR BRIDGE SHALL BE 473.67.

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

EXISTING BRIDGE PLANS - FOR EXISTING BRIDGE PLANS, CONTACT THE PLANS REVISION OFFICE AT (404) 655-XXXX. THE EXISTING BRIDGE WAS BUILT UNDER PROJECT NUMBER FAP 2669 (2).

WAITING PERIOD - NONE REQUIRED.

FOOTING ELEVATIONS - FOOTING ELEVATIONS, AS SHOWN ON THE PLANS, SHALL NOT BE LOWERED MORE THAN THREE FEET WITHOUT THE APPROVAL OF THE STATE BRIDGE ENGINEER.

COFFERDAMS - COFFERDAMS ARE TO BE LOCATED AT BENTS 2 & 3.

PLAN DRIVING OBJECTIVE - SEE SUBSTRUCTURE DETAILS.

DRIVING DATA PILES - ONE DRIVING DATA PILE SHALL BE REQUIRED AT BENT 1.

1013 DOWEL BARS - 1013 DOWEL BARS SHALL BE CAST IN PLACE OR SHALL BE PLACED IN FORMED 3" DIAMETER X 12" DEEP HOLES AND GROUTED 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. AT FIXED ENDS, 1013 DOWEL BARS SHALL BE EFFECTIVELY WRAPPED TO PREVENT BOND WITH BEAM CONCRETE. AT EXPANSION ENDS, FORM 1 1/2" X 3" X 7" DEEP SLOT IN BEAM FOR 1013 DOWEL BARS.

SMOOTH DOWEL BARS - SMOOTH DOWEL BARS SHALL BE PLACED IN FORMED 3" DIAMETER X 12" DEEP HOLES AND GROUTED 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 - THE APPROACH SLAB STANDARD SHALL BE MODIFIED TO INCREASE THE 3/8 INCH EXPANSION JOINT SHOWN BETWEEN THE APPROACH SLAB AND THE BACK FACE PAVING REST AND END POST TO 1 INCH AT BENT 4 ONLY. SEE ROADWAY PLANS FOR APPROACH SLAB PAYMENT. SEE MISCELLANEOUS DETAILS FOR EXPANSION JOINT DETAILS.

GROOVED CONCRETE - THE ENTIRE LENGTH OF THE BRIDGE SHALL BE GROOVED TRANSVERSELY AS PER SUB-SECTION 500.3.05.T.9.C OF THE GEORGIA DOT SPECIFICATIONS.

BOTTOM OF BEAM ELEVATIONS - BOTTOM OF THE BEAMS SHALL NOT BE BELOW ELEVATION 474.41.

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 GEORGIA DOT OFFICE OF MATERIALS AND RESEARCH. ONLY E70XX (EXCLUDING E7014 AND E7024) LOW HYDROGEN ELECTRODES SHALL BE USED FOR MANUAL SHIELDED METAL ARC WELDING.

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

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VOID

SUMMARY OF QUANTITIES

PAY ITEM NUMBER	QUANTITY	UNIT	PAY ITEM
211-0300	353	CY	BRIDGE EXCAVATION, STREAM CROSSING
500-0100	956	SY	GROOVED CONCRETE
500-1006	LUMP	LS	SUPERSTR CONCRETE, CL AA, BR NO - 1 (511)
500-3101	183	CY	CLASS A CONCRETE
507-9030	1210	LF	PSC BEAMS, AASHTO, BULB TEE, 54 IN, BR NO - 1
511-1000	31358	LB	BAR REINF STEEL
511-3000	LUMP	LS	SUPERSTR REINF STEEL, BR NO - 1 (101998)
516-1100	418	LF	ALUM HANDRAIL, STD 3626
520-1104	270	LF	PILING IN PLACE, STEEL H, HP 10 X 42
520-1147	175	LF	PILING IN PLACE, STEEL H, HP 14 X 73
520-4104	1	EA	LOAD TEST, STEEL H, HP 10 X 42 (IF REQD)
520-4147	1	EA	LOAD TEST, STEEL H, HP 14 X 73 (IF REQD)
525-1000	4	EA	COFFERDAM
540-1101	LUMP		REMOVAL OF EXISTING BR, STA NO - 20+00
541-5419	LUMP		DETOUR BRIDGE, 24 FT X 95 FT, STA - 20+00
603-2024	910	SY	STN DUMPED RIP RAP, TP 1, 24 IN
603-7000	910	SY	PLASTIC FILTER FABRIC

BRIDGE NO. 1

Heath & Lineback Engineers
INCORPORATED
12 POWDER SPRINGS STREET, SUITE 240
MARIETTA, GEORGIA 30064

GEORGIA
DEPARTMENT OF TRANSPORTATION
PRECONSTRUCTION DIVISION-OFFICE OF BRIDGE DESIGN

GENERAL NOTES
S.R. 16 OVER ROOTY CREEK
PUTNAM COUNTY BRST-069-(120)

SCALE: NO SCALE APRIL 2005

DESIGNED RLF	CHECKED JWC	REVIEWED MS
DRAWN RMP	DESIGN GROUP EJC	APPROVED PVL

BRIDGE SHEET	2 OF 14
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DWG NO. 35-02

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