## 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.

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

EXISTING BRIDGE PLANS - ORIGINAL BRIDGE PLANS MAY BE PURCHASED BY CONTACTING THE PLANS REPRODUCTION OFFICE AT (404) 347-0600. THE ORIGINAL BRIDGE WAS BUILT UNDER PROJECT NUMBER B.A.(3)1049(8).

WAITING PERIOD - NONE REQUIRED.

PLAN DRIVING OBJECTIVE - SEE SUBSTRUCTURE DETAILS.

TEST PILES - DRIVE TEST PILES AT THE FOLLOWING LOCATIONS:

ONE 16 IN SQ PSC X 59 FT AT BENT 2CL
ONE 14 IN SQ PSC X 46 FT AT BENT 4RT

DRIVING DATA PILES - ONE DRIVING DATA PILE SHALL BE REQUIRED AT EACH OF BENTS 2 AND 4.

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 THRU 4 | EL. 77.0 |

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.

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.

PSC BEAMS - PRESTRESSED CONCRETE AASHTO TYPE I MODIFIED BEAMS SHALL BE PAID FOR AS "LF PSC BEAMS, AASHTO TYPE I".

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 - 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 WATERPROOFING, JOINT FILLERS, AND OTHER INCIDENTAL ITEMS NECESSARY TO COMPLETE THE WORK.

## BRIDGE CONSISTS OF

3 - 40'-0" TYPE I MOD PSC BEAM SPANS ---------- SPECIAL DESIGN

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

2 - PSC PILE 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")

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)

## DRAINAGE DATA

DRAINAGE AREA ---------- 5110.0 SQ MILES

| FLOOD FREQUENCY | TOTAL DISCHARGE | DISCHARGE THRU BRIDGE | AREA OF OPENING BELOW FLOODSTAGE | MEAN VELOCITY | BACKWATER |
|---|---|---|---|---|---|
| 50 YEAR | 86400 CFS | 216 CFS | 269 SQ FT | 0.80 FPS | 0.27 FT |
| 100 YEAR | 95700 CFS | 297 CFS | 337 SQ FT | 0.88 FPS | 0.31 FT |
| 500 YEAR | 116000 CFS | 502 CFS | 480 SQ FT | 1.05 FPS | 0.37 FT |

## TRAFFIC DATA

TRAFFIC ---------- ADT = 6,500 (2008)
ADT = 10,000 (2028)

DESIGN SPEED ---------- 65 MPH

TRUCKS ---------- 8 %

24 HR TRUCKS ---------- 10 %

DIRECTIONAL ---------- 60 %

## 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 A, $f'_c$ = 3,000 PSI

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

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

## UTILITIES

NONE

## SUMMARY OF QUANTITIES

| PAY ITEM NUMBER | QUANTITY | UNIT | PAY ITEM |
|---|---|---|---|
| 500-0100 | 507 | SY | GROOVED CONCRETE |
| 500-1006 | LUMP | LS | SUPERSTR CONCRETE, CL AA, BR NO - 3 (154) |
| 500-2100 | 228 | LF | CONCRETE BARRIER |
| 500-3101 | 55 | CY | CLASS A CONCRETE |
| 507-9001 | 583 | LF | PSC BEAMS, AASHTO TYPE I, BR NO - 3 |
| 511-1000 | 6526 | LB | BAR REINF STEEL |
| 511-3000 | LUMP | LS | SUPERSTR REINF STEEL, BR NO - 3 (43975) |
| 520-2214 | 487 | LF | PILING, PSC, 14 IN SQ |
| 520-2216 | 484 | 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 - 3 |
| 603-2024 | 920 | SY | STN DUMPED RIP RAP, TP 1, 24 IN |
| 603-7000 | 920 | SY | PLASTIC FILTER FABRIC |

BRIDGE NO. 3

GEORGIA
DEPARTMENT OF TRANSPORTATION
PRECONSTRUCTION DIVISION-OFFICE OF BRIDGE DESIGN

GENERAL NOTES SHEET
S.R. 30 (U.S.280) OVER THE OCONEE RIVER OVERFLOW

WHEELER-MONTGOMERY COUNTIES — BR000-0001-00(366)

NO SCALE — JUNE 2010

DRAWING NO. 35-42
BRIDGE SHEET 2 OF 11

REVISIONS — BY — DATE

DESIGNED LEL — DRAWN LEL — CHECKED DDF — DESIGN GROUP SWW — REVIEWED WMD — APPROVED PVL

W0001366B3.DGN