

# USE ON CONSTRUCTION - 08-10-2015

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	CSSTP-0007-00(694)	197B	355

## GENERAL NOTES

SPECIFICATIONS - GEORGIA STANDARD SPECIFICATIONS, 2013 EDITION, 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. LONGITUDINAL REINFORCING SHALL NOT EXTEND THROUGH EXPANSION JOINTS. LONGITUDINAL REINFORCING SHALL EXTEND THROUGH CONTRACTION JOINTS.

CHAMFER - CHAMFER ALL EXPOSED CONCRETE EDGES 3/4" UNLESS OTHERWISE NOTED.

STATIONS AND OFFSETS - STATIONS SHOWN ARE ALONG CL SE NEWNAN BYPASS. OFFSETS SHOWN ARE MEASURED TO THE FRONT FACE OF WALL.

STEEL H-PILES - USE STEEL FOR H-PILES THAT MEETS THE REQUIREMENTS OF ASTM A 709 GR 50.

PILE EMBEDMENT - NOTIFY THE ENGINEER IF THE REQUIRED PILE EMBEDMENT IS NOT ACHIEVED FOR ANY PILE PRIOR TO EXCAVATION IN FRONT OF THE WALL.

LAGGING - INSTALL LAGGING IMMEDIATELY AFTER EXCAVATING. ALL VOIDS BEHIND LAGGING SHALL BE PACKED WITH SOIL OR FILLED WITH GROUT WITHIN 8 HOURS OF EXCAVATION.

GEOCOMPOSITE WALL DRAIN - USE A GEOCOMPOSITE WALL DRAIN, SELECTED FROM THE GEORGIA DOT QUALIFIED PRODUCTS, LIST BEHIND THE WALL FACING AT WEEP HOLE LOCATIONS. SPACE WEEP HOLES AT 8 FEET MAXIMUM SPACINGS.

CONCRETE FACING - WALL FACING IS 12 INCH THICK CAST IN PLACE REINFORCED CONCRETE. PNEUMATICALLY APPLIED CONCRETE (SHOTCRETE) WILL NOT BE ALLOWED AS A PERMANENT WALL FACING.

FINISH - CONCRETE WALL FACING SHALL HAVE AN ASHLAR STONE ARCHITECTURAL TREATMENT ON THE FRONT FACE. OMIT THE ASHLAR STONE ARCHITECTURAL FINISH BEHIND THE TYPE 7 SIDE BARRIER.

GRAFFITI PROOF COATING - APPLY A GRAFFITI PROOF COATING AS PER SECTION 838 OF THE GEORGIA DOT SPECIFICATIONS.

CONCRETE COVER - MAINTAIN 2 INCHES COVER ON ALL REINFORCEMENT.

JOINTS IN WALL FORMS - SUPPORT JOINTS IN WALL FORMS WITH BACKING STRIPS TO PROVIDE A FLUSH SURFACE IN THE FINISHED WALL FACE.

WATERSTOPS - ALL HORIZONTAL AND VERTICAL CONSTRUCTION JOINTS SHALL CONTAIN 6 INCH PLAIN WATERSTOPS. ALL VERTICAL EXPANSION JOINTS SHALL CONTAIN A 6 INCH BULB TYPE WATERSTOP.

CHAIN LINK FENCE - CHAIN LINK FENCE SHALL BE PAID FOR AS "LF CH LK FENCE, ZC COAT, 6 FT, 9 GA".

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 TESTING. USE ONLY E70XX (EXCLUDING E7014 AND E7024) LOW HYDROGEN ELECTRODES FOR MANUAL SHIELDED METAL ARC

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 TIMBER LAGGING, SHEAR STUDS, JOINT FILLERS, AND OTHER INCIDENTAL ITEMS NECESSARY TO COMPLETE THE WORK.

## DESIGN DATA

SPECIFICATIONS ----- AASHTO 17TH EDITION, 2002

CONCRETE ----- CLASS A,  $f'_c = 3,000$  PSI

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

STEEL H-PILES ----- GRADE 50,  $f_y = 50,000$  PSI

TIMBER LAGGING ----- MIXED OAK NO. 2 ROUGH CUT, UNTREATED

STEEL STUDS ----- ASTM A108

COHESION ----- 0 PSF

ANGLE OF INTERNAL FRICTION ----- VARIES 28° TO 32°

UNIT WEIGHT ----- 110 PCF

## CONSTRUCTION SEQUENCE

1. DRIVE H-PILES.
2. EXCAVATE, INSTALLING LAGGING AS EXCAVATION PROCEEDS.
3. POUR LEVELING PAD.
4. INSTALL SHEAR STUDS, WALL DRAINAGE, AND REINFORCING.
5. ERECT FRONT WALL FORM AND FORMLINERS.
6. PLACE WALL CONCRETE
7. STRIP FORM AND FINISH WALL.
8. INSTALL FENCE AND PLACE CONCRETE DITCH AND TYPE 7 BARRIER.

## GEORGIA STANDARDS

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

CHAIN LINK WIRE FENCE ----- GA. STD. 9031-N (8-85)

## SUMMARY OF QUANTITIES

### RETAINING WALL NO.3

PAY ITEM NUMBER	QUANTITY	UNIT	PAY ITEM
500-3107	107	CY	CLASS A CONCRETE, RETAIN WALL
511-1000	6963	LB	BAR REINF STEEL
520-1179	840	LF	PILING IN PLACE, STEEL H, HP 14 X117
643-1152	194	LF	CH LK FENCE, ZC COAT, 6 FT, 9 GA

WALL NO. 3

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

GENERAL NOTES  
 SE NEWNAN BYPASS AT UPSHAW  
 CEMETERY  
 COWETA COUNTY CSSTP-0007-00(694)

SCALE: NO SCALE JULY 2015

DRAWING NO. 32-005	BY	DATE	DESIGNED KJK	CHECKED RBW	REVIEWED DLC/WMD
WALL SHEET 2 OF 5			DRAWN KJK	DESIGN GROUP EJC	APPROVED BFR

1 INCH WHEN PRINTED FULL SIZE

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