

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	HPP00-0013-01(062) & 0010884	353	517

GENERAL NOTES - CAST-IN-PLACE WALLS

SPECIFICATIONS - GEORGIA STANDARD SPECIFICATIONS, 2001 EDITION AND 2011 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. LONGITUDINAL REINFORCING SHALL NOT EXTEND THROUGH EXPANSION JOINTS. STEM LONGITUDINAL REINFORCING SHALL NOT EXTEND THROUGH CONTRACTION JOINTS. LONGITUDINAL FOOTING AND KEY REINFORCING SHALL BE CONTINUOUS BETWEEN EXPANSION JOINTS. WHEN FOOTING SIZE CHANGES, LONGITUDINAL REINFORCING FOR SMALLER FOOTING SHALL EXTEND 1'-6" MINIMUM INTO LARGER FOOTING.

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

FINISH - THE FRONT FACE OF WALLS & PARAPETS FOR ALL PROPOSED WALLS SHALL HAVE AN SC ASHLAR FORMLINER FINISH, SPEC FORMLINERS PATTERN NO. 1515 OR APPROVED EQUAL.

GRAFFITI PROOF COATING - APPLY A GRAFFITI PROOF COATING AS PER SECTION 838 OF THE GEORGIA DOT SPECIFICATIONS TO THE EXPOSED SURFACES OF ALL RETAINING WALLS ON THE PROJECT. PAYMENT FOR THIS SHALL BE INCLUDED IN THE OVERALL PRICE BID FOR THE WALLS.

CONCRETE COVER - MAINTAIN 3 INCHES COVER ON ALL FOOTING AND KEY REINFORCING STEEL AND 2 INCHES COVER ON ALL STEM REINFORCING.

BACKFILL - PLACE BACKFILL ON FRONT FACE SIDE OF WALL BEFORE BACKFILLING BACK FACE OF WALL.

STATIONS AND OFFSETS - STATIONS SHOWN ARE ALONG & BUFORD HIGHWAY/SR 13. OFFSETS SHOWN ARE MEASURED TO THE FRONT FACE OF WALL.

TEMPORARY SHORING - PROVIDE TEMPORARY SHORING AS NECESSARY FOR WALL CONSTRUCTION. COST SHALL BE INCLUDED IN OVERALL BID SUBMITTED.

GEOCOMPOSITE WALL DRAIN - USE A GEOCOMPOSITE WALL DRAIN, SELECTED FROM THE GEORGIA DOT QUALIFIED PRODUCTS LIST, IS AN ACCEPTABLE SUBSTITUTE FOR THE SAND BLANKET SHOWN IN THE DRAINAGE DETAILS.

WALL JOINTS - EXPANSION JOINTS SHALL BE LOCATED AT A MAXIMUM SPACING OF 90'-0" AND EXTEND THROUGH THE WALL STEM AND FOOTING. CONTRACTION JOINTS SHALL BE LOCATED AT A MAXIMUM SPACING OF 30'-0" AND EXTEND THROUGH THE WALL STEM ONLY.

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

FOOTING EXCAVATION - EXCAVATE FOR SPREAD FOOTINGS WITH CARE TO PREVENT UNDERCUTTING. PLACE FOOTINGS ON UNDISTURBED SOIL. BLASTING WILL NOT BE ALLOWED FOR THE REMOVAL OF ROCK.

KEY EXCAVATION - EXCAVATE FOR KEY AS NEAR PLAN DETAILS AS PRACTICAL. POUR KEY AGAINST UNDISTURBED SOIL WITHOUT FORMS.

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

DESIGN DATA - WALL NO. 5A & 5B

SPECIFICATIONS ----- AASHTO 17TH EDITION, 2002
 CONCRETE ----- CLASS A, $f'_c = 3,000$ PSI
 REINFORCEMENT STEEL ----- GRADE 60, $f_y = 60,000$ PSI
 DESIGN SOIL PRESSURE ----- 5000 LBS/SQ. FT.
 COHESION ----- 0 PSF
 ANGLE OF INTERNAL FRICTION ----- 32°
 UNIT WEIGHT ----- 125 PCF
 COEFFICIENT OF SLIDING FRICTION ----- 0.40

GENERAL NOTES - SOLDIER PILE WALL

SPECIFICATIONS - GEORGIA STANDARD SPECIFICATIONS, 2001 EDITION AND 2011 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.

STATIONS AND OFFSETS - STATIONS SHOWN ARE ALONG & BUFORD HIGHWAY/SR 13. OFFSETS SHOWN ARE MEASURED TO THE FRONT FACE OF WALL.

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

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

FINISH - THE FRONT FACE OF WALLS & PARAPETS FOR ALL PROPOSED WALLS SHALL HAVE AN SC ASHLAR FORMLINER FINISH, SPEC FORMLINERS PATTERN NO. 1515 OR APPROVED EQUAL.

GRAFFITI PROOF COATING - APPLY A GRAFFITI PROOF COATING AS PER SECTION 838 OF THE GEORGIA DOT SPECIFICATIONS TO THE EXPOSED SURFACES OF ALL RETAINING WALLS ON THE PROJECT. PAYMENT FOR THIS SHALL BE INCLUDED IN THE OVERALL PRICE BID FOR THE WALLS.

REMOVAL OF ROCK - BLASTING WILL NOT BE ALLOWED FOR THE REMOVAL OF ROCK.

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.

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

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 FT MAXIMUM SPACINGS.

CONCRETE COVER - MAINTAIN 2 INCHES COVER ON ALL REINFORCING STEEL.

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 JOINT FILLERS, TIMBER LAGGING, VERTICAL DRAIN, AND OTHER INCIDENTAL ITEMS NECESSARY TO COMPLETE THE WORK.

DESIGN DATA - WALL NO. 7

SPECIFICATIONS ----- AASHTO 17TH EDITION, 2002
 CONCRETE ----- CLASS A, $f'_c = 3,000$ PSI
 REINFORCEMENT STEEL ----- GRADE 60, $f_y = 60,000$ PSI
 TIMBER LAGGING ----- S.Y.P. NO. 2, ROUGH CUT, PRESSURE TREATED
 COHESION ----- 0 PSF
 ANGLE OF INTERNAL FRICTION ----- 28°
 UNIT WEIGHT ----- 115 PCF
 COEFFICIENT OF SLIDING FRICTION ----- 0.35

DESIGN DATA - WALL NO. 17A & 17B

SPECIFICATIONS ----- AASHTO 17TH EDITION, 2002
 CONCRETE ----- CLASS A, $f'_c = 3,000$ PSI
 REINFORCEMENT STEEL ----- GRADE 60, $f_y = 60,000$ PSI
 TIMBER LAGGING ----- S.Y.P. NO. 2, ROUGH CUT, PRESSURE TREATED
 DESIGN SOIL PRESSURE ----- 3000 LBS/SQ. FT.
 COHESION ----- 0 PSF
 ANGLE OF INTERNAL FRICTION ----- 32°
 UNIT WEIGHT ----- 115 PCF
 COEFFICIENT OF SLIDING FRICTION ----- 0.40

GEORGIA STANDARDS

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

SUMMARY OF QUANTITIES - WALL NO. 5A

PAY ITEM NUMBER	QUANTITY	UNIT	PAY ITEM
500-3107	95	CY	CLASS A CONCRETE, RETAIN WALL
511-1000	9974	LB	BAR REINF STEEL

SUMMARY OF QUANTITIES - WALL NO. 5B

PAY ITEM NUMBER	QUANTITY	UNIT	PAY ITEM
500-3107	117	CY	CLASS A CONCRETE, RETAIN WALL
511-1000	12872	LB	BAR REINF STEEL

SUMMARY OF QUANTITIES - WALL NO. 7

PAY ITEM NUMBER	QUANTITY	UNIT	PAY ITEM
500-3107	206	CY	CLASS A CONCRETE, RETAIN WALL
511-1000	38609	LB	BAR REINF STEEL
520-1151	680	LF	PILING IN PLACE, STEEL H, HP 14 X 89
520-5000	540	LF	PILOT HOLES
600-0001	44	CY	FLOWABLE FILL

SUMMARY OF QUANTITIES - WALL NO. 17A

PAY ITEM NUMBER	QUANTITY	UNIT	PAY ITEM
500-3107	69	CY	CLASS A CONCRETE, RETAIN WALL
500-3201	11	CY	CLASS B CONCRETE, RETAIN WALL
511-1000	9926	LB	BAR REINF STEEL
520-1173	290	LF	PILING IN PLACE, STEEL H, HP 14 X 102
520-5000	257	LF	PILOT HOLES
600-0001	15	CY	FLOWABLE FILL

SUMMARY OF QUANTITIES - WALL NO. 17B

PAY ITEM NUMBER	QUANTITY	UNIT	PAY ITEM
500-3107	79	CY	CLASS A CONCRETE, RETAIN WALL
500-3201	4	CY	CLASS B CONCRETE, RETAIN WALL
511-1000	8103	LB	BAR REINF STEEL

CONSTRUCTION SEQUENCE - WALL NO. 7 & 17A

1. DRILL PILOT HOLES.
2. SET PILES AND REBAR AND CAST CONCRETE TO TOP OF LEVELING PAD.
3. INSTALL TIMBER LAGGING TO A DEPTH OF 2'-0" BELOW FINISHED GRADE.
4. INSTALL SHEAR STUDS, WALL DRAINAGE, AND REBAR. FORM AND CAST CONCRETE FACE.
5. FILL AS NEEDED AND CONSTRUCT PAVED DITCH BEHIND WALL.

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.

PROJECT PI NO. 731770 & 0010884

WALL NO. 5A, 5B, 7, 17A, & 17B



DATE		12/10/14	
REVISIONS		EXTEND WALL 5A & 5B	
GEORGIA DEPARTMENT OF TRANSPORTATION PRECONSTRUCTION DIVISION-OFFICE OF BRIDGE DESIGN			
WALL GENERAL NOTES SPECIAL DESIGN WALLS - BUFORD HIGHWAY STREETSCAPES WALL NO. 5A, 5B, 7, 17A, & 17B FULTON/DEKALB COUNTY HPP00-0013-01(062) & 0010884			
DRAWING NO. 32-001		SCALE: NONE	
WALL SHEET 1 OF 1		JUNE 2012	
DESIGNED: DRB	CHECKED: FAQ / DPD	REVIEWED: WMD	APPROVED: BFR III
DRAWN: CAB	DESIGN GROUP: SWW		

12/10/2014 10:50:23 AM task orders\Task order #22 burford hwy\final\gndgn

USE ON CONSTRUCTION