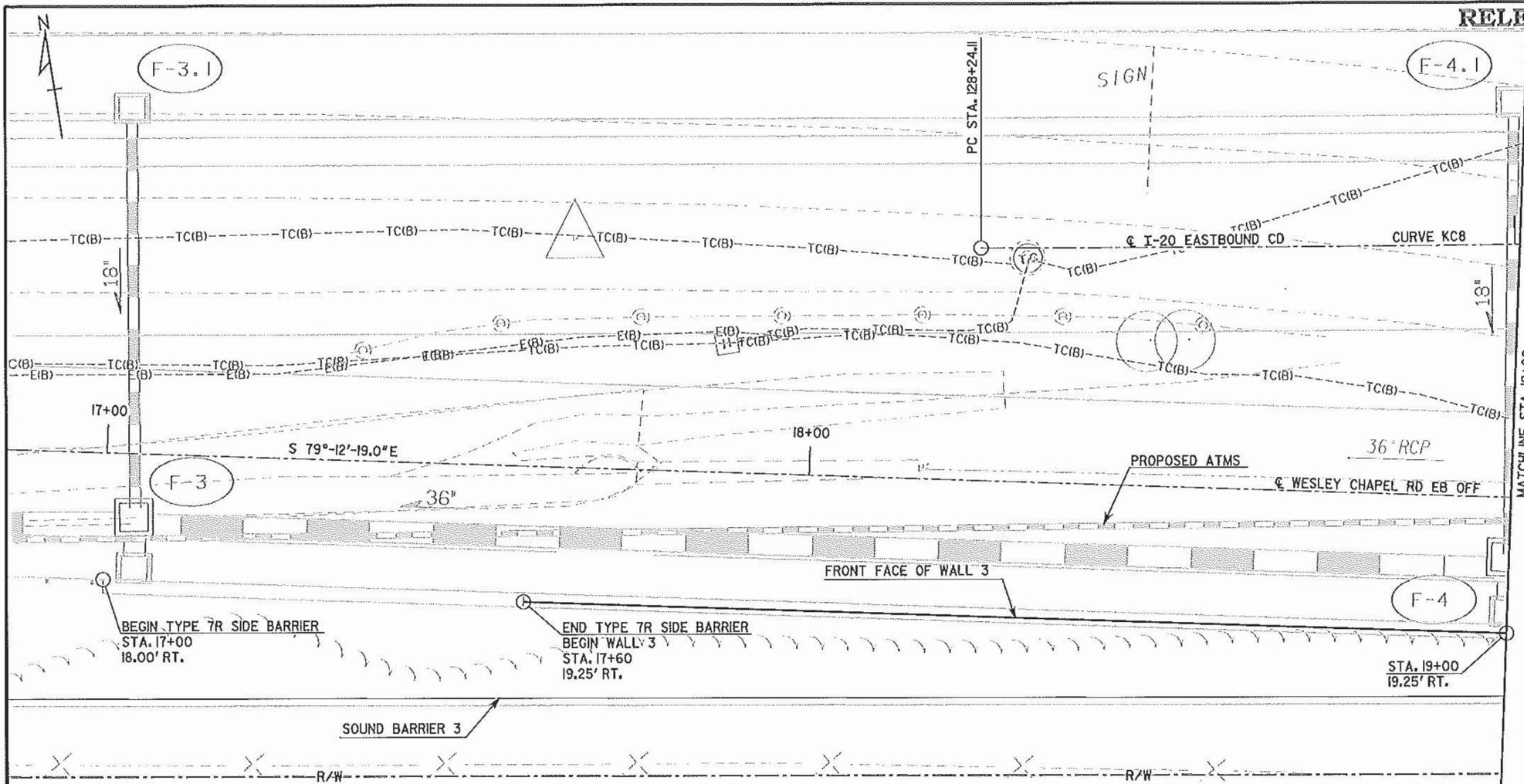


WALL NO. 3 DESIGN DATA

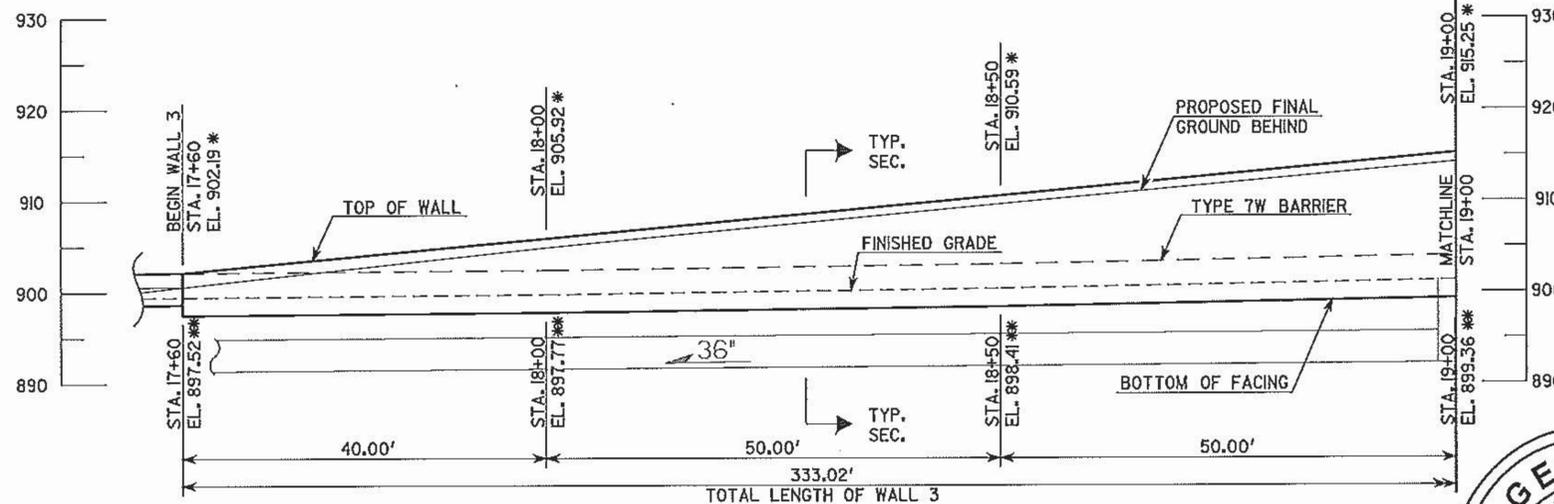
DESIGN SOIL PRESSURE ----- 3000 PSF
 COHESION ----- 0 PSF
 ANGLE OF INTERNAL FRICTION ----- 30°
 UNIT WEIGHT ----- 120 PCF
 COEFFICIENT OF SLIDING FRICTION ----- 0.40

SOIL NAIL WALL 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.
 STATIONS AND OFFSETS - STATIONS SHOWN ARE ALONG CL WESLEY CHAPEL RD EB OFF RAMP. OFFSETS SHOWN ARE MEASURED TO THE FRONT FACE OF WALL.
 CHAMFER - CHAMFER ALL EXPOSED CONCRETE EDGES 3/8 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 - EXPOSED SURFACE OF THE WALL SHALL RECEIVE AN ASHLAR STONE FINISH.
 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.
 CONCRETE COVER - MAINTAIN 2 INCHES COVER ON ALL REINFORCING STEEL.
 WEEP HOLES - 4" I.D. WEEP HOLES SHALL BE PROVIDED AT A MAXIMUM SPACING OF 8' O.C., FULL LENGTH OF WALL.
 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.
 WALL PLANS - THE RETAINING WALL IS CONSIDERED A CONTRACTOR DESIGN. THESE WALL PLANS ARE CONCEPTUAL AND ARE FOR ILLUSTRATIVE PURPOSES ONLY. EXACT NUMBER OF SOIL NAILS, THEIR LOCATIONS AND DESIGN LOADS SHALL BE PROVIDED BY THE CONTRACTOR FOR THE WALL SYSTEM BID. THE PRESENCE OF THESE CONCEPTUAL PLANS IN THE CONTRACT DOCUMENTS IN NO WAY RELIEVES THE CONTRACTOR FROM PROVIDING A WALL SYSTEM WHICH PROVIDES STRUCTURAL ADEQUACY, INCLUDING SOIL NAIL TESTING, IN ACCORDANCE WITH THE GEORGIA DOT SPECIFICATIONS AND SPECIAL PROVISION 628, AT THE BID PRICE.
 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 AND OTHER INCIDENTAL ITEMS NECESSARY TO COMPLETE THE WORK.

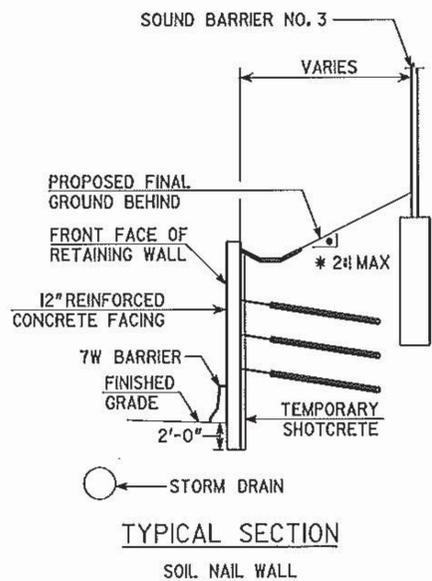


PLAN



ELEVATION

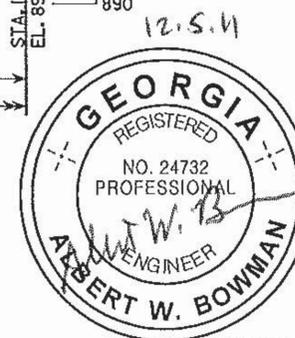
LOOKING AT BACK FACE OF WALL



TYPICAL SECTION

SOIL NAIL WALL

NOTES:
 1. * ELEVATION OF TOP OF WALL AT BACK FACE, TYP.
 2. ** ELEVATION AT BOTTOM OF FACING, TYP.



VERTICAL CURVE DATA
 WESLEY CHAPEL RD EB OFF

DRAWING NO. 31-11
 WALL SHEET 1 OF 2

DATE	REVISIONS	BY

WALL NO. 3

THE LPA GROUP
 THE LPA GROUP INCORPORATED
 TRANSPORTATION CONSULTANTS
 3555 ENGINEERING DRIVE
 MARIETTA, GEORGIA 30092
 (770) 253-3118

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

WALL PLAN AND ELEVATION - SOIL NAIL/
 PILE AND LAGGING
 I-20 CD LANES

DEKALB COUNTY 0009542

SCALE: 1" = 10'-0" DECEMBER 2011

DESIGNED BSB	CHECKED ANZ	REVIEWED WEJ/WMD
DRAWN BSB	DESIGN GROUP AWB	APPROVED BFR