

WALL DESIGN DATA

DESIGN BEARING PRESSURE: WALL 1 ----- 1.00 TONS/SF
 WALL 2 ----- 1.25 TONS/SF

COHESION ----- 0 PSF

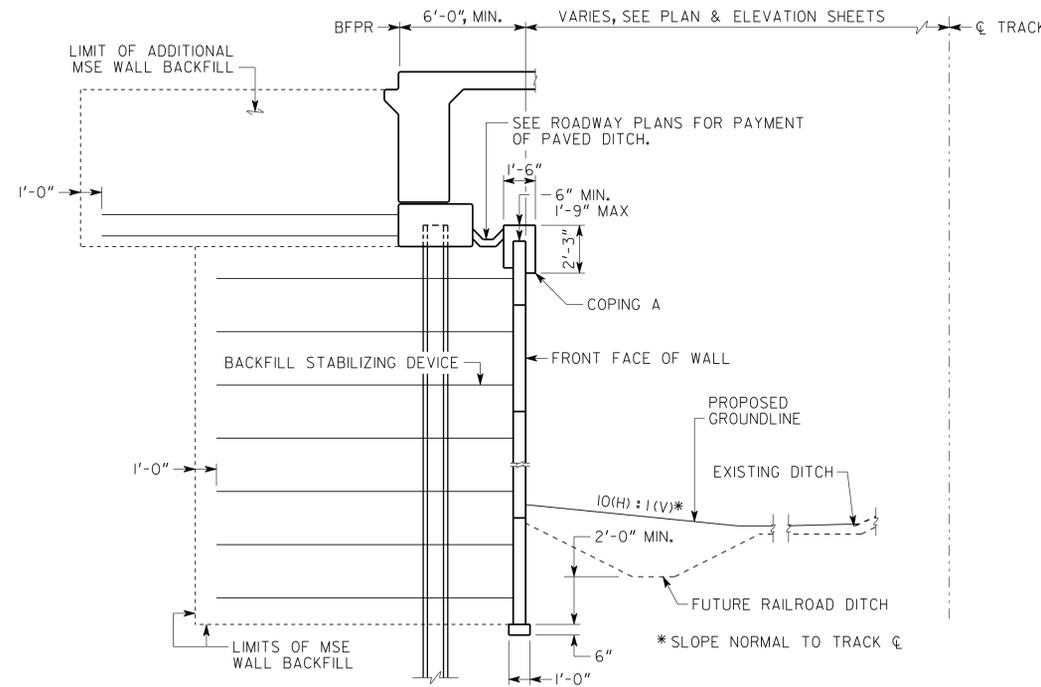
ANGLE OF INTERNAL FRICTION ----- 32°

UNIT WEIGHT ----- 120 PCF

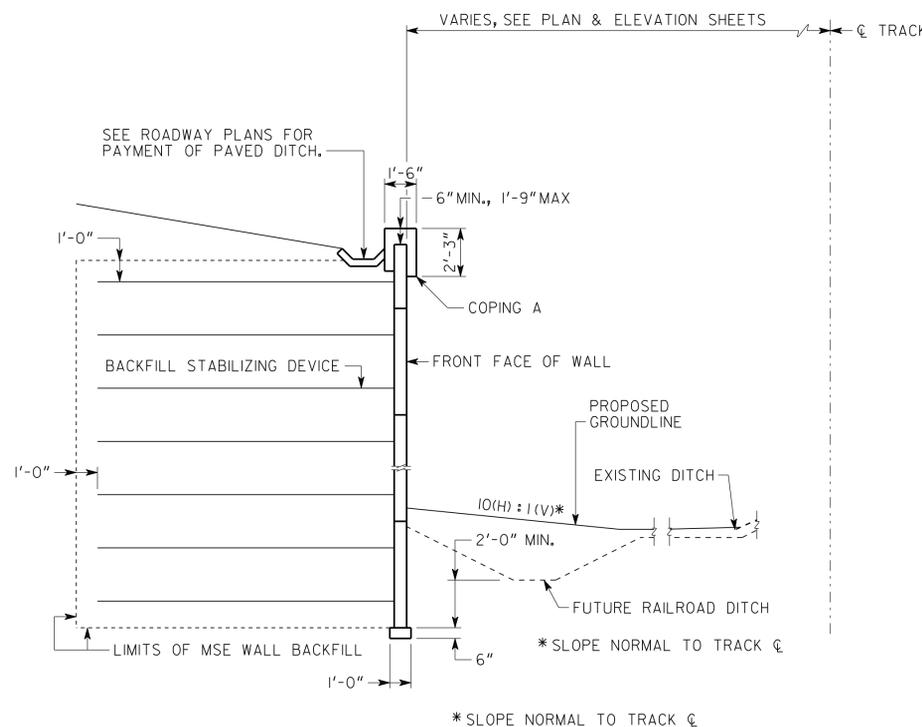
COEFFICIENT OF SLIDING FRICTION ----- 0.40

NOTES

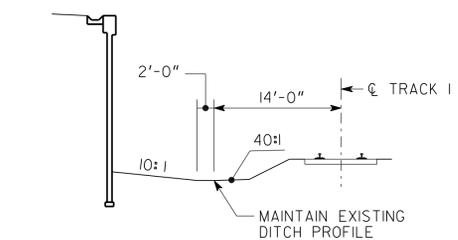
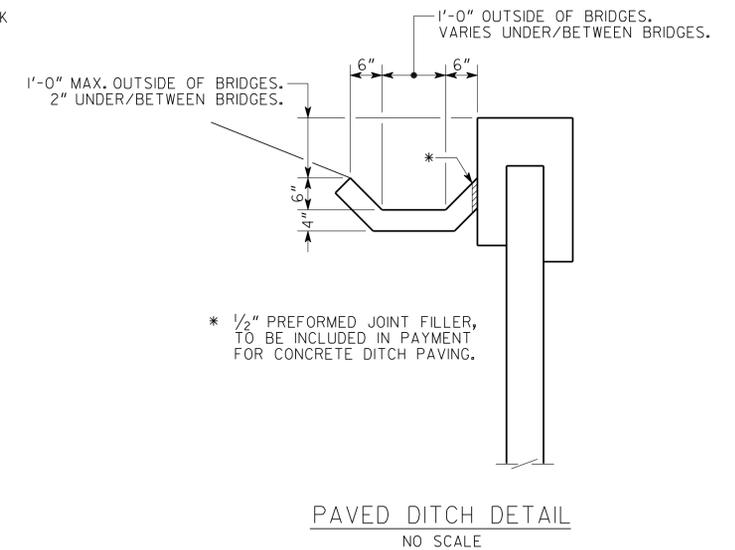
- SPECIFICATIONS - GEORGIA STANDARD SPECIFICATIONS, 2013 EDITION, AS MODIFIED BY CONTRACT DOCUMENTS.
- REINFORCING STEEL - PLACE AND TIE ALL REINFORCING STEEL IN ACCORDANCE WITH THE GEORGIA DOT SPECIFICATIONS. DO NOT WELD REINFORCING STEEL.
- FINISH - ALL MSE WALL PANELS SHALL HAVE AN ASHLAR STONE ARCHITECTURAL TREATMENT ON THE FRONT FACE.
- GRAFFITI PROOF COATING - ALL MSE WALL PANELS SHALL HAVE A GRAFFITI PROOF COATING AS PER SECTION 838 OF THE GEORGIA DOT SPECIFICATIONS.
- CONCRETE COVER - MAINTAIN 2 INCHES COVER MINIMUM ON ALL REINFORCING STEEL.
- STAGE CONSTRUCTION - THE WALL MAY BE CONSTRUCTED IN STAGES TO IMPROVE THE UNDERLYING SOIL BEARING CAPACITY. CONSTRUCT WALL TO A HEIGHT RESULTING IN A SOIL BEARING PRESSURE OF 2000 POUNDS PER SQUARE FOOT AT WALL 1 AND 2500 POUNDS PER SQUARE FOOT AT WALL 2, WAIT 30 DAYS, THEN CONSTRUCT ADDITIONAL STAGES OR REMAINDER OF WALL.
- GROUNDWATER - DUE TO THE HIGH GROUNDWATER ELEVATIONS NEAR THE BOTTOM OF WALL FOUNDATIONS, 12" OF MSE WALL BACKFILL MAY BE REQUIRED UNDER THE WALL FOUNDATION. THE USE OF THIS MATERIAL SHALL BE AT THE DIRECTION OF THE ENGINEER AND MAY BE ELIMINATED ON CONSTRUCTION IF THE FOOTING AREA IS DRY.
- DRAINAGE - DRAINAGE THROUGH THE WALL SHALL BE INCLUDED AS PART OF THE CONTRACTOR'S DESIGN AND CONSTRUCTION. THE WALL DESIGNER SHALL BE RESPONSIBLE FOR GLOBAL STABILITY ANALYSIS TO ENSURE THE EXTERNAL STABILITY OF THE WALL.
- JOINTS - PROVIDE ONE INCH EXPANSION JOINT IN COPING OR BARRIER AT EVERY FOURTH PANEL.
- 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 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 REINFORCING STRIPS, THEIR LOCATIONS AND LENGTHS 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, IN ACCORDANCE WITH SECTION 627 OF THE GEORGIA DOT SPECIFICATIONS, 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, NEOPRENE PADS, WATERPROOFING AND OTHER INCIDENTAL ITEMS NECESSARY TO COMPLETE THE WORK.



SECTION A-A
SECTION UNDER BRIDGE
NO SCALE



SECTION B-B
SECTION OUTSIDE OF BRIDGE
NO SCALE



RAILROAD DITCH CONTROL DIAGRAM
NO SCALE
(SYMMETRICAL ABOUT C OF TRACK 1)

WALLS NO. 1 & 2



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

WALL NOTES AND DETAILS
 SE NEWNAN BYPASS OVER CENTRAL
 OF GEORGIA RAILROAD COMPANY
 COWETA COUNTY CSSTP-0007-00(694)

1/16" = 1'-0" (UNLESS NOTED) JANUARY 2014

DRAWING NO.
32-003
WALL SHEET
3 OF 3

DATE	REVISIONS	DESIGNED	CHECKED	REVIEWED
		SAW	KJK	DLC/WMD
		SAW	EJC	BFR