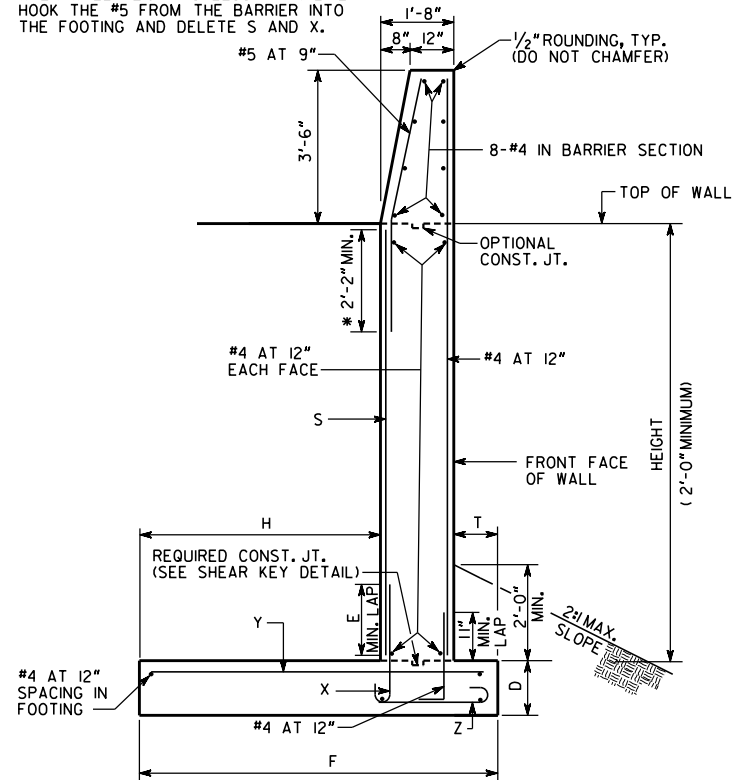
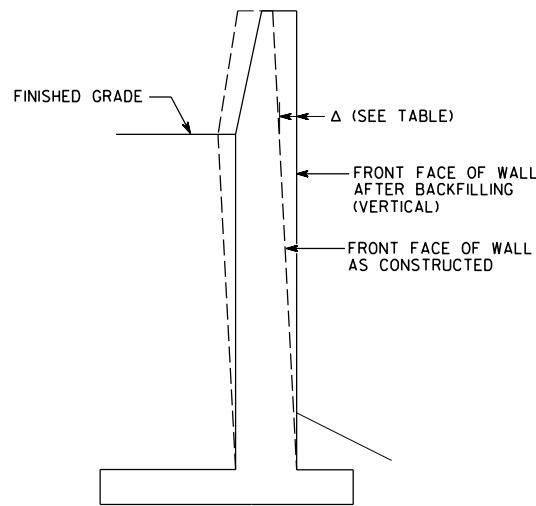


* NON-CONTACT LAPS ARE ACCEPTABLE.
WHEN WALL HEIGHT IS LESS THAN 2'-2"
HOOK THE #5 FROM THE BARRIER INTO
THE FOOTING AND DELETE S AND X.

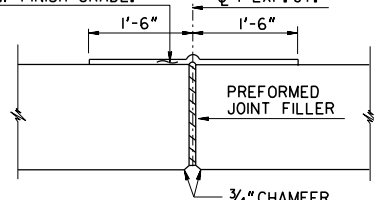


TYPICAL BARRIER SECTION



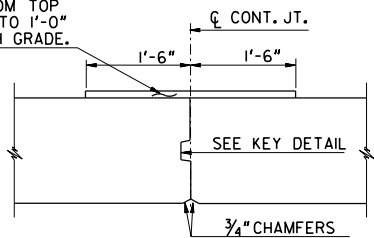
WALL BATTER DETAIL

3 PLY MEMBRANE
WATERPROOFING,
EXTENDS FROM TOP
OF FOOTING TO 1'-0"
BELOW FINISH GRADE.

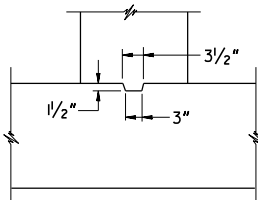


DETAIL OF EXPANSION JOINT

3 PLY MEMBRANE
WATERPROOFING,
EXTENDS FROM TOP
OF FOOTING TO 1'-0"
BELOW FINISH GRADE.

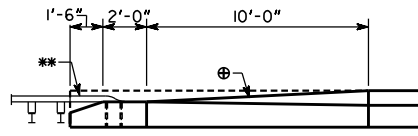


DETAIL OF CONTRACTION JOINT



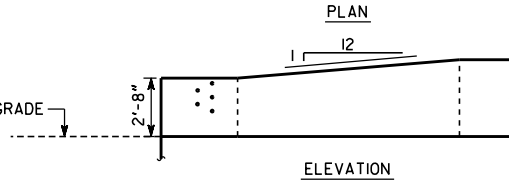
(FOR USE IN FOOTING
AND CONTRACTION JOINT)
SHEAR KEY DETAIL

MAX. HEIGHT	WALL DIMENSIONS					REINFORCEMENT				Δ (INCHES)	MAX. FACTORED BEARING PRESSURE	TYPE
	D	E	F	H	T	S	X	Y	Z			
7'	1'-0"	2'-2"	6'-8"	3'-9"	1'-3"	#5 AT 11"	#5 AT 11"	#5 AT 11"	#4 AT 12"	0"	2.6 KSF	2-S
9'	1'-0"	2'-2"	8'-2"	5'-3"	1'-3"	#5 AT 9"	#5 AT 9"	#5 AT 9"	#4 AT 12"	1/16"	2.4 KSF	2-SA
11'	1'-3"	2'-2"	9'-2"	6'-3"	1'-3"	#5 AT 8"	#5 AT 8"	#6 AT 8"	#4 AT 12"	1/8"	3.0 KSF	2-SB
13'	1'-3"	2'-2"	10'-5"	7'-3"	1'-6"	#5 AT 7"	#5 AT 7"	#6 AT 7"	#4 AT 12"	3/16"	3.3 KSF	2-SC

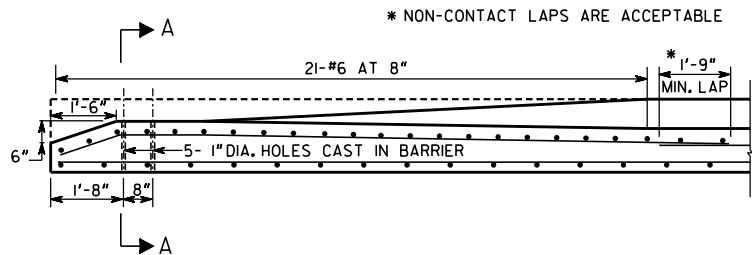


20
1
BARRIER TRANSITION

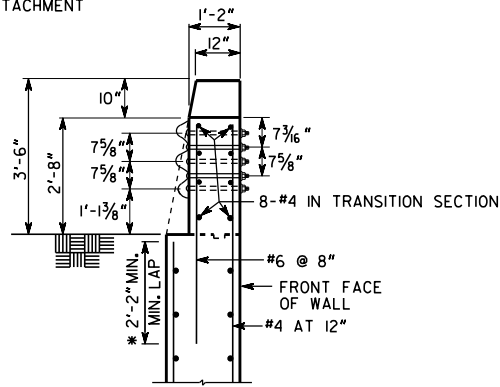
** - SEE GDOT STD. 4382 AND
4385 FOR INFORMATION ON
HOLE LAYOUT AND ATTACHMENT



BARRIER TRANSITION DETAIL



REINFORCEMENT FOR TRANSITION

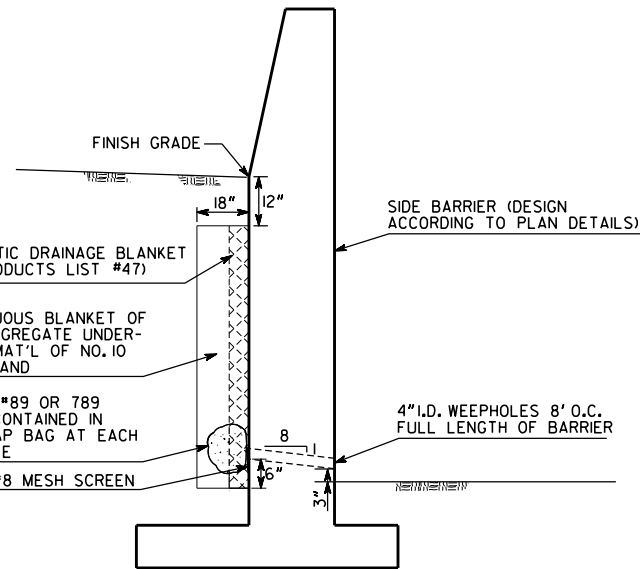


SECTION A-A

NOTE: VARY LENGTH OF VERTICAL BARS
IN THE TRANSITION TO FOLLOW THE
TOP OF THE BARRIER.

ALTERNATE "A"
CONTINUOUS SYNTHETIC DRAINAGE BLANKET
(GDOT QUALIFIED PRODUCTS LIST #47)

ALTERNATE "B"
CONTINUOUS BLANKET OF
FINE AGGREGATE UNDER-
DRAIN MAT'L OF NO. 10
CONC. SAND
1 CU. FT. #89 OR 789
STONE CONTAINED IN
A BURLAP BAG AT EACH
WEEPHOLE
#8 MESH SCREEN



DRAINAGE DETAILS

GENERAL NOTES:

- SPECIFICATIONS: GEORGIA STANDARD, CURRENT EDITION, AND SUPPLEMENTS THERETO.
- CONCRETE SHALL BE CLASS "AA". REINFORCING STEEL SHALL BE GRADE 60.
- DRAINAGE DETAIL ALTERNATES A OR B, PER THE DETAIL ON THIS SHEET, ARE REQUIRED FOR TYPES 2-S, 2-SA, 2-SB, AND 2-SC. INCLUDE COSTS OF MATERIALS AND WORK IN PRICE BID FOR SIDE BARRIER.
- MAINTAIN 2" COVER ON ALL REINFORCING IN STEM AND BARRIER AND 3" COVER IN FOOTING. USE OF FORMLINERS PER THE CONTRACT WILL REQUIRE OVERALL STEM AND BARRIER WIDTHS TO BE INCREASED TO MAINTAIN COVER.
- EXPOSED CONCRETE SURFACES SHALL RECEIVE A TYPE III FINISH UNLESS A FORMLINER IS REQUIRED PER THE CONTRACT. FORMLINERS SHALL NOT BE APPLIED TO THE BARRIER FACE.
- APPLY A GRAFFITI PROOF COATING AS PER SECTION 838 TO ALL EXPOSED CONCRETE SURFACES.
- SIDE BARRIERS OVER 20'-0" IN LENGTH SHALL HAVE CONTRACTION JOINTS SPACED AT A MAXIMUM OF 20'-0". CONTRACTION JOINTS SHALL EXTEND THROUGH THE BARRIER, AND STEM. SIDE BARRIERS OVER 80'-0" IN LENGTH SHALL HAVE EXPANSION JOINTS SPACED UNIFORMLY AT A MAXIMUM SPACING OF 80'-0" WITH 1" PREFORMED JOINT FILLER EXTENDING THROUGH BARRIER, STEM, AND FOOTING AT EACH EXPANSION JOINT. GALVANIZED 10# NAILS SHALL BE USED TO INSTALL EXPANSION MATERIAL.
- 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 REINFORCING SHALL BE LAP SPICED 2'-4". LONGITUDINAL FOOTING REINFORCING SHALL BE CONTINUOUS BETWEEN EXPANSION JOINTS. WHEN FOOTING SIZE CHANGES, LONGITUDINAL REINFORCING FOR SMALLER FOOTING SHALL EXTEND 1'-4" MINIMUM INTO LARGER FOOTING.
- EXPANSION AND CONTRACTION JOINTS IN TYPES 2-S, 2-SA, 2-SB, AND 2-SC SIDE BARRIER SHALL BE WATERPROOFED ON THE BACK SIDE. WATERPROOFING SHALL BE 3-PLY AND EXTEND FROM 1'-0" BELOW FINISH GRADE TO TOP OF FOOTING FOR 1'-6" MIN. EACH SIDE OF JOINT.
- TYPES 2-S, 2-SA, 2-SB AND 2-SC SIDE BARRIER SHALL BE PAID FOR PER LIN. FT. AS CONCRETE SIDE BARRIER, TYPE 2-S, 2-SA, 2-SB, OR 2-SC. INCLUDE COST OF WATERPROOFING AND ALL INCIDENTALS AS SPECIFIED IN SECTION 621 OF THE STANDARD SPECIFICATIONS IN THE PRICE BID.
- TYPE 2-S, 2-SA, 2-SB AND 2-SC SIDE BARRIERS ARE DESIGNED IN ACCORDANCE WITH THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 8TH EDITION, 2017. THE BARRIERS INCLUDED IN THE DESIGN HAVE BEEN CERTIFIED BY THE DEPARTMENT TO SATISFY MASH TL-4 REQUIREMENTS FOR PROJECTS IN GEORGIA.
- SIDE BARRIERS DESIGNED FOR THE FOLLOWING SOIL PROPERTIES:

	FOUNDATION	BACKFILL
COHESION =	0 KSF	0 KSF
θ =	28°	28°
UNIT WT. =	0.120 KCF	0.120 KCF
- WIRE FABRIC REINFORCING OR ALTERNATE REBAR SIZE/SPACING MAY BE USED IF DETAILS ARE SUBMITTED TO AND APPROVED BY THE ENGINEER PRIOR TO USE.
- WHERE GUARDRAIL ATTACHMENT IS REQUIRED, USE BARRIER TRANSITION DETAIL. INCLUDE COSTS FOR TRANSITION AND THE FIVE 1" DIA. HOLES, PROPERLY LOCATED FOR CONNECTING THE SPECIAL END SHOE IN THE PRICE BID FOR CONCRETE SIDE BARRIER, TYPE 2-S, 2-SA, 2-SB, OR 2-SC BASED ON STEM HEIGHT REQUIRED.

		DATE	DEPARTMENT OF TRANSPORTATION		
			STATE OF GEORGIA		
		REVISION	STANDARD		
			CONCRETE SIDE BARRIER		
			TYPES 2-S, 2-SA, 2-SB AND 2-SC		
			NO SCALE		
			MAY 2020		
BY	DES.	DDF	(SUBMITTED)	<i>R Christopher Radd</i> STATE DESIGN POLICY ENGINEER	NUMBER 4949B
	DRW.	DDF			
	CHK.	CEW			
	REV.	WMD/BAS	(APPROVED)		