	VERTICAL CONCRETE BARRIER RAIL HEIGHT TABLE							
INCREASE STATIONING	SPAN	LOCATION	AT LEFT GUTTERLINE	AT RIGHT GUTTERLINE				
	А	BEARING (NEAR)	3'-9¾"	3'-9¾"				
		MID-SPAN	3′-95⁄8″	3'-9 <sup>1</sup> / <sub>2</sub> "				
		BEARING (FAR)	3′-10″	3′-9¾″				
	В	BEARING (NEAR)	4'-0 <sup>3</sup> / <sub>16</sub> "	3'-111/2"				
		MID-SPAN	3′-107⁄8″	3'-91/2"				
		BEARING (FAR)	4'-11/2"	3′-111/2″				
	С	BEARING (NEAR)	3′-11¾″	3'-93/4"				
		MID-SPAN	3′-11⅓″	3'-91/2"				
		BEARING (FAR)	4'-0 <sup>7</sup> / <sub>16</sub> "	3′-9¾″				

BIL	BILL OF MATERIAL FOR VERTICAL CONCRETE BARRIER RAI						
BAR	BARS PER PAIR OF EXTERIOR UNITS	TOTAL NO.	SIZE	TYPE	LENGTH	WEIGHT	
	SPAN A (35' UNITS)						
<b></b> ₩B10	96	96	#5	STR	10'-7"	1060	
<b>*</b> S4	88	88	#5	2	7′-2″	658	
*EPOXY COATED REINFORCING STEEL LBS. 17							
CLASS AA CONCRETE					CU.YDS.		
TOTAL	VERTICAL CONCRETE BARRIER RAIL		LN.FT.			70.29	
	SPAN B (65' UNITS)						
<b>*</b> B24	144	144	#5	STR	12'-10"	1902	
* S13	134	134	#5	2	7'-2"	1002	
<b>★</b> EP0X				LBS.		2904	
	AA CONCRETE	CU.YDS.			17.5		
TOTAL	VERTICAL CONCRETE BARRIER RAIL			LN.FT.		130.29	
	SPAN C (35' UNITS)						
<b>*</b> B10	96	96	#5	STR	10'-7"	1060	
<b>*</b> \$4	88	88	<b>#</b> 5	2	7′-2″	658	
* EPOXY COATED REINFORCING STEEL LBS.							
	AA CONCRETE		CU.YDS.				
TOTAL	VERTICAL CONCRETE BARRIER RAIL		CU.YDS. 9.3 LN. FT. 70.29				

TOTAL VERTICAL CONCRETE BARRIER RAIL FOR ENTIRE BRIDGE <u>270.87</u> LN. FT.

GROUT-2"CL.MIN. ─#5 S4 OR S13 SEE "VERTICAL CONCRETE BARRIER RAIL HEIGHT TABLE' SECTION T-T AT OPEN JOINT AT BENT (THIS IS TO BE USED WHERE FOAM JOINT IS NOT USED) -#5 S3 OR S12 SECTION S-S

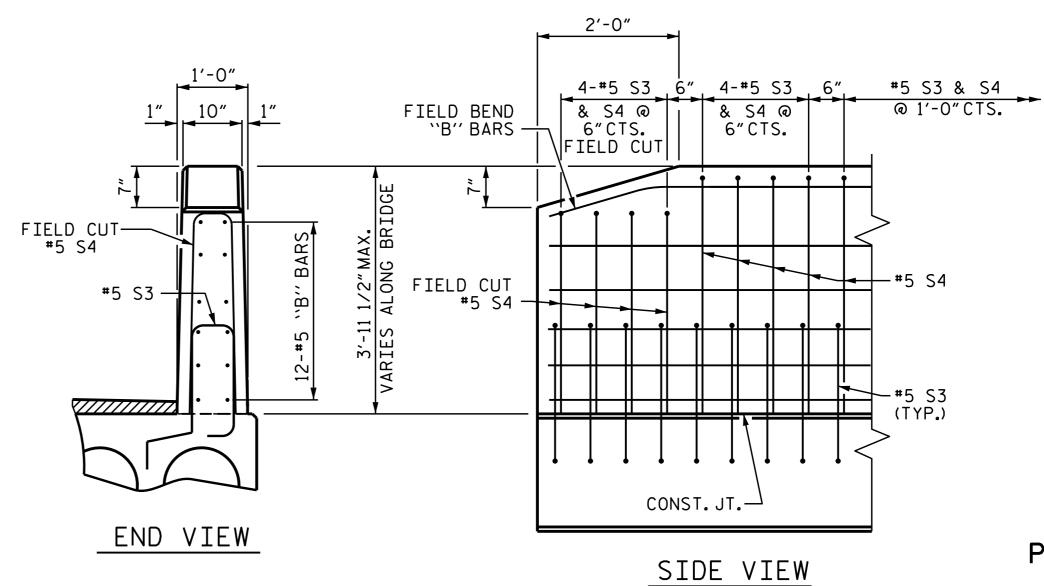
AT DAM IN OPEN JOINT
(THIS IS TO BE USED ONLY
WHEN SLIP FORM IS USED) \_2¾"CL. ② ½"EXP.JT.MAT'L HELD IN
PLACE WITH GALVANIZED NAILS.
(NOTE: OMIT EXP.JT.MAT'L.
WHEN SLIP FORM IS USED) © OPEN JT. IN RAIL @ BENT CHAMFER. CHAMFER 3/4" CHAMFER 3/4" CHAMFER #5 S3 OR S12 (SEE "PLAN OF UNIT" FOR SPACING) CONST.JT.

ELEVATION AT EXPANSION JOINTS

## VERTICAL CONCRETE BARRIER RAIL SECTION

RIGHT SIDE SHOWN, LEFT SIDE SIMILAR BY ROTATION.

ASSEMBLED BY: P.N.HOLDER CHECKED BY: F.R.LEA DATE: 5/30/13 DATE: 6/4/13 REV. 12/11 DRAWN BY: DGE 5/09 CHECKED BY: BCH 6/09 MAA/AAC



END OF RAIL DETAILS

PROJECT NO. B-4461 CHATHAM COUNTY STATION: 19+12.00 -L-

BAR TYPE

BAR DIMENSIONS ARE OUT TO OUT

SHEET 6 OF 6

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

VERTICAL CONCRETE BARRIER RAIL DETAILS

SEAL 16301

ting Fang 4/12/2016 SHEET NO. REVISIONS S-11 DATE: DATE: DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED TOTAL SHEETS 23