

NOTES

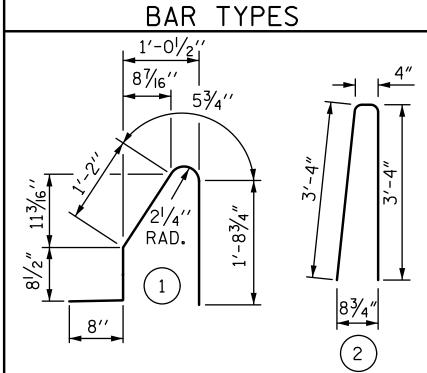
THE BARRIER RAIL IN EACH UNIT SHALL NOT BE CAST UNTIL ALL SLAB CONCRETE IN THAT UNIT HAS BEEN CAST AND HAS REACHED A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI.

ALL REINFORCING IN BARRIER RAIL SHALL BE EPOXY COATED.

THE #5 S1 AND #5 S2 BARS MAY BE SHIFTED SLIGHTLY IN ORDER TO MAINTAIN A 2"MINIMUM CLEARANCE TO 1/2" EXPANSION JOINT MATERIAL IN THE BARRIER RAIL.

GROOVED CONTRACTION JOINTS, $\frac{1}{2}$ "IN DEPTH, SHALL BE TOOLED IN ALL EXPOSED FACES OF THE BARRIER RAIL AND IN ACCORDANCE WITH ARTICLE 825-10(B) OF THE STANDARD SPECIFICATIONS. THE CONTRACTION JOINT SHALL BE LOCATED AT EACH THIRD POINT BETWEEN BARRIER RAIL EXPANSION JOINTS. ONLY ONE CONTRACTION JOINT IS REQUIRED AT MIDPOINT OF BARRIER RAIL SEGMENTS LESS THAN 20 FEET IN LENGTH AND NO CONTRACTION JOINTS ARE REQUIRED FOR THOSE SEGMENTS LESS THAN 10 FEET IN LENGTH.

FOR CONCRETE BARRIER RAIL ON APPROACH SLAB, SEE "BRIDGE APPROACH SLAB DETAILS" SHEETS.



ALL BAR DIMENSIONS ARE OUT TO OUT

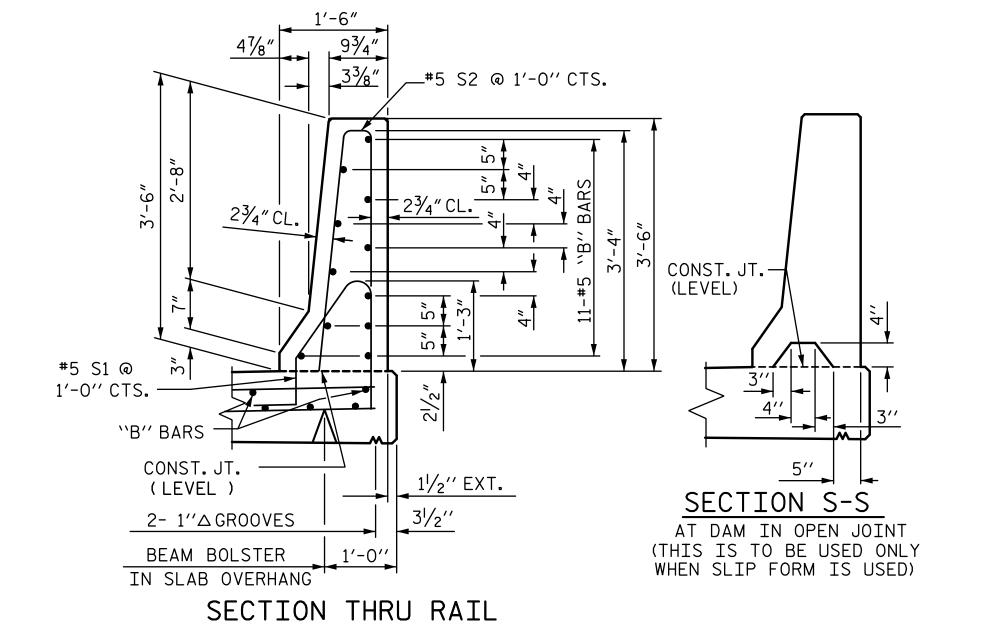
BILL OF MATERIAL									
FOR CONCRETE BARRIER RAIL ONLY									
BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT				
★ B1	22	#5	STR	24'-5"	560				
∗ B2	132	#5	STR	24'-7"	3385				
∗ B3	44	#5	STR	16′-5″	753				
* S1 412 #5		1	4'-9"	2041					
* S2 412 #5		2	7′-0″	3008					

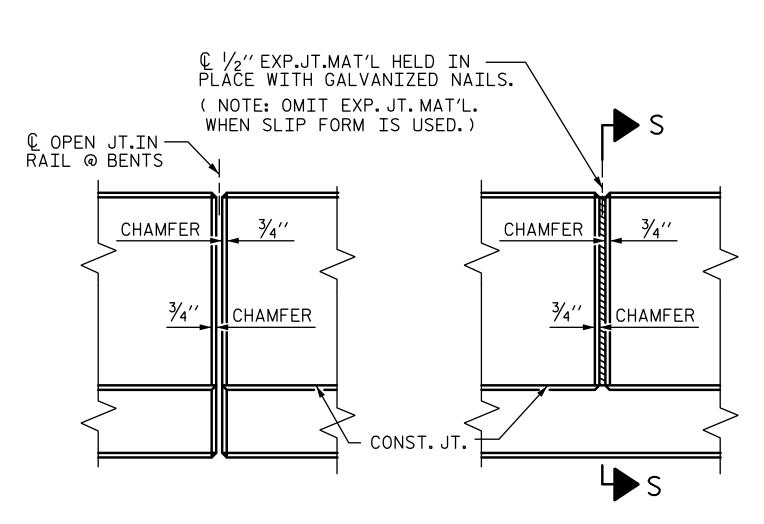
* EPOXY COATED	
REINFORCING STEEL	9747 LBS.
CLASS AA CONCRETE	58.9 CU. YDS
CONCDETE BADDTED DATI	

CONCRETE BARKTER KATE SUPERSTRUCTURE

410.76 LIN. FT. 40.17 LIN. FT APPROACH SLABS 450.93 LIN. FT

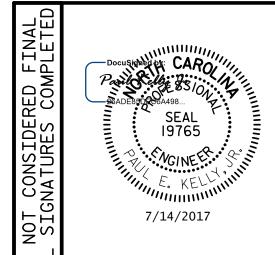
• FOR EPOXY COATED REINFORCING STEEL AND CLASS AA CONCRETE IN THE BARRIER RAIL ON THE APPROACH SLABS, SEE "BRIDGE APPROACH SLAB DETAILS" SHEET.





ELEVATION AT EXPANSION JOINTS BARRIER RAIL DETAILS

PROJECT NO. U-4751 NEW HANOVER COUNTY STATION: 225+92.26 -L-



STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE

CONCRETE BARRIER RAIL

\bigcirc STV $_{lears}$ 100		
- Gears	NO.	BY:
STV ENGINEERS, INC. 900 West Trade St., Suite 715 Charlotte, NC 28202	1	
Charlotte, NC 28202 NC License Number F—0991	2	

	SHEET NO.				
BY:	DATE:	NO.	BY:	DATE:	S3-19
		3			TOTAL SHEETS
		4			36

DRAWN BY : ___MBC 3-17 DESIGN ENGINEER OF RECORD: _ DATE : CHECKED BY : TRL _ DATE : _____5-17 ___P. KELLY DATE : _____5-17